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JAN 29 1925

SEED ANNUAL

SHIRLEY POPPIES

Special Offering

Carmine Shades	White Shades
Rose Shades	Wild Rose
Salmon Shades	Mixed
Each, pkt. 10 cts., $\frac{1}{4}$ oz.	50 cts., oz. \$1.50

COLLECTION

Pkt. each of above six . . .	\$0.50
$\frac{1}{4}$ oz. each of above six . . .	2.50

SPRING
1925

BALTIMORE BRANCH

Stumpf & Walter Co.

204-206 NORTH EUTAW STREET

BALTIMORE
MARYLAND

Home Offices: 30-32 Barclay St., New York, N.Y.



Staigreen



Stump & Walter Co Grass Seed Mixtures

Produce Lawns which are Pleasing in Color,
Perfect in Texture, and they "Staigreen";
in spite of hard use.

PRICES

Following delivered Anywhere in the United States
when cash accompanies the order

Staigreen						
Lb.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.	
\$0.60	\$1.40	\$2.75	\$6.25	\$12.00	\$47.50	
		Qt.	4 qts.	8 qts.	Bus.	10 bus.

High-Grade Lawn Seed \$0.40 \$1.25 \$2.25 \$7.50 \$70.00
Seashore Lawn Seed .40 1.25 2.25 8.50 80.00
Shady Place Lawn Seed .50 1.65 3.00 10.00 97.50
Tennis Court Grass Seed .50 1.75 3.25 12.00 115.00
Terrace Sod Lawn Seed .50 1.75 3.25 12.00 115.00

Quantity to Order

One pound sows 20 ft. x 20 ft. (400 sq. ft.) 100 pounds sow 1 acre
One quart sows 15 ft. x 15 ft. (225 sq. ft.) 4 bushels sow 1 acre

Double these quantities when turf is needed quickly
To Repair Turf that is worn and jaded, use one-half these quantities
Oz. ¼ lb. Lb. 5 lbs. 100 lbs.
White Lawn Clover \$0.10 \$0.30 \$0.85 \$4.00 \$65.00
Following shipped, freight paid to your station, in 100-lb.
lots or over when cash accompanies your order

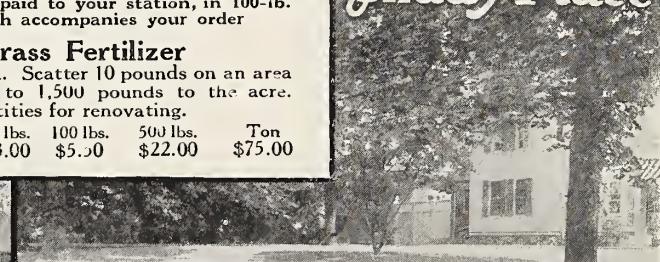
Emerald Grass Fertilizer

A concentrated Grass Food. Scatter 10 pounds on an area of 300 square feet; 1,000 to 1,500 pounds to the acre.
Use two-thirds these quantities for renovating.

5 lbs.	10 lbs.	25 lbs.	50 lbs.	100 lbs.	500 lbs.	Ton
\$0.45	\$0.80	\$1.75	\$3.00	\$5.00	\$22.00	\$75.00



Shady Place



Terrace Sod



Quality Always

IN offering the 1925 edition of our annual catalogue to our Baltimore friends, it is with feelings of gratitude for the patronage extended to us during the year which has passed. The increasing support which we have received endorses the policy of our business that

HIGH QUALITY AND ABSOLUTE RELIABILITY ARE PARAMOUNT

The initial cost of seeds is small; the labor necessary to produce a crop is continuous, and the time taken for it to grow is so long, that in seeds high quality is the only consideration.

It has been the aim of the Stumpp & Walter Co. to insure that their customers sow only the best seeds obtainable, until in the minds of thousands of users the name of Stumpp & Walter Co. is closely associated with reliability.

We invite the business of our new friends and we welcome their orders, for a trial alone gives us the opportunity of demonstrating to them the individual and interested service which has ever been the keynote of our business.

STUMPP & WALTER CO.

TERMS

SPECIAL FREE DELIVERY. We will deliver Garden Seeds and Bulbs listed in our catalogue anywhere in the United States when cash accompanies your order, by mail, express, or freight, at our option, to your town or city. On Field Seeds, Implements, Fertilizers, Insecticides, Plants, and Potatoes, we do not pay mail, express, or freight charges, and we reserve the right to charge a proportion of the cost of mailing Peas, Beans, and Corn if your order consists only of these sorts.

Packing.—We make no charges for cases or packing, only for cotton and burlap bags; these we invoice at cost and make full allowance when returned, prepaid, in good condition.

Remittances should be made by Draft on Bank, Post-Office Order, Registered Letter, or Express Money Order. Small sums may be sent in postage stamps. We draw attention to the necessity for particular care in having name, post office,

county and state distinctly written; we are in receipt of many orders deficient in these important particulars. Charge accounts are readily opened to all persons of approved credit.

Non-Warranty.—We, Stumpp & Walter Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop.

As bearing on the above, the following remarks, taken from Bulletin No. 1232, issued October, 1921, by the U. S. Department of Agriculture, are of interest. "**Without attempting to discuss the arguments for the seedsman's disclaimer pro and con, the fact remains that reputable seedsmen stand back of their seeds and do not knowingly and wilfully sell seeds that are unfit for planting purposes.**"

All claims must be made within 5 days after receipt of goods

Stumpp & Walter Co.

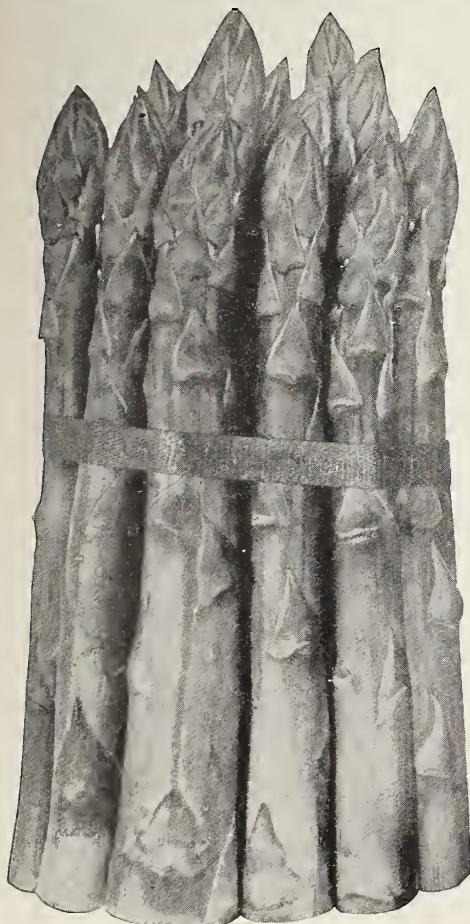
OF NEW YORK

Phone:
Calvert 4-061

204-206 N. Eutaw Street, BALTIMORE, MD.

Stumpp & Walter Co.'s Vegetable Seeds

It has always been our endeavor to list only such sorts of Vegetable Seeds as, from our tests, we have found to be of superior merit; and, while we have in many instances not listed certain varieties, which have been struck out on account of being out of date, we have in every instance listed a superior sort which we can recommend as being more satisfactory both for the market and the home-garden.



Pedigreed Washington Asparagus

ASPARAGUS ROOTS

CULTURE.—Dig a trench, $1\frac{1}{2}$ feet deep and 1 foot wide, and fill in about 4 inches with well-rotted manure, tread down firmly. On this put about 5 inches of good, rich soil, and then lay the roots in, about 18 inches apart, taking care to spread well, having the crown in an upright position. Cover to within 4 inches of the top of the trench and, as the plants grow, gradually fill the trench to the surface. For spacing between the rows allow 18 inches.

PEDIGREED WASHINGTON. Originally developed by the U. S. Department of Agriculture, further selected and improved. It is rust-resistant, particularly vigorous, and of wonderful quality. The shoots are large, straight, *dark green* in color and with a heavy purple over-tone; the tight, firm tips do not begin to open out until well out of the ground. Pedigreed Washington Asparagus stands ahead of all other varieties as a standard for the home or market-garden. Extra-choice Roots, \$5 per 100, \$45 per 1,000.

CONOVER'S COLOSSAL.

	100	1,000
Extra-choice Roots.....	\$2 50	\$20 00
Mammoth Roots	3 50	30 00

ASPARAGUS SEED

One ounce will plant about 50 feet of drill

CONOVER'S COLOSSAL. A mammoth green sort of the largest size and of good quality. The best of the old kinds. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

LIMA BEANS

BEANS

$\frac{1}{2}$ lb. equals about $\frac{1}{2}$ pint	2 lbs. equal about 1 quart
1 lb. equals about 1 pint	15 lbs. equal about 1 peck

DWARF BUSH

One pound will plant 50 to 100 feet of drill

If ordered alone, add 5 cts. per $\frac{1}{2}$ pound, 10 cts. per pound, and 15 cts. per 2 pounds for mailing.

FORDHOOK. A form of the popular Challenger or Potato Lima, and earlier. Both pods and Beans are almost twice the size of the Kumerle or Dreer's Bush Lima. Pods measure 4 to 5 inches, frequently containing 4 fine Beans of the finest flavor. Pkt. 10c., $\frac{1}{2}$ lb. 30c., lb. 55c., 2 lbs. \$1.05, 5 lbs. \$2.60, bus. \$20.

HENDERSON BUSH LIMA. Both pods and Beans are small, but they are produced in large quantities. The standard Lima for canning. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$1.2.

NEW IMPROVED BUSH LIMA. Similar to Burpee's Bush Lima except that pods are larger in size and are well filled with larger and thicker Beans. A far greater producer; growth more vigorous; the blossom-bearing stalks are thrown well out of the foliage, and the Beans are ready for picking a full week earlier. Pkt. 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, bus. \$1.7.

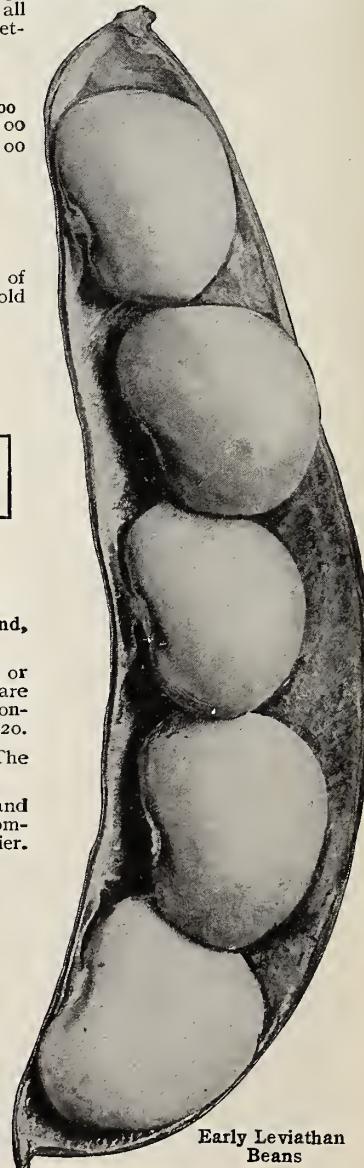
LIMA BEANS (POLE)

One pound will plant 50 hills

CHALLENGER, or POTATO. Early and more prolific than the large Lima; a small Bean of decidedly excellent flavor. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, bus. \$1.5.

EARLY LEVIATHAN. The earliest variety of Pole Lima; produces pods in clusters. A splendid variety where the season is short. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, bus. \$1.6.

KING OF THE GARDEN. This variety is all that the name implies in Lima Beans; very prolific and of excellent quality, setting the Beans at the bottom of the pole and producing continuously to the end of the season. Pods 5 to 7 inches long, borne in clusters of four to five, with five or six Beans in each pod. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.50, bus. \$1.3.



Early Leviathan Beans

DWARF or BUSH BEANS

One pound will plant 100 feet of drill

CULTURE.—Plant as soon as danger of frost is over, placing the seeds 2 to 3 inches apart in drills and about $2\frac{1}{2}$ inches deep. The rows should be about $2\frac{1}{2}$ feet apart, and the soil slightly hilled, to insure good drainage and keep the Beans from touching the ground. Most Beans should be picked when about 4 inches long. Frequent pickings insure a more prolonged bearing season. Avoid jerking the plant, as this frequently disturbs young feeding roots. Use the finger-nails to sever the stems. Do not pick when bushes are wet, as this may cause blight and rust. For succession in the home-garden plant 30 feet of row every other week up to August 1.

GREEN-PODDED BEANS

BOUNTIFUL. To this Bean belongs the distinction of being one of the best flat, Green-podded Bush Beans; very prolific and a continuous bearer from early spring to late fall. It is tender and of delicious flavor. Is as entirely stringless as the breeder has been able to make a flat, green-podded Bean. Its pods contain a little more fiber than Stringless Green-Pod of like age, but they average large and are entirely stringless until they become longer than 5 inches. One of the earliest Bush Beans. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$13.

STRINGLESS GREEN-POD. This Bean remains among the very best first-early round-podded Bush Beans. A very free bearer; entirely stringless; averages 5 inches long and is slightly curved. A handsome sort, borne on a healthy plant which stands dry weather well. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$12.

GIANT STRINGLESS GREEN-POD. Pods greatly resemble those of Stringless Green-Pod. Fully an inch longer in size and a trifle earlier. A variety that is largely grown for the market on account of its size and splendid shape. Splendid sort for succession when planted with Stringless Green-Pod. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$12.

BLACK VALENTINE. A Bean which has been planted extensively in the South on account of its heat-resisting qualities. Matures early, producing long, round, straight pods, which are tender when quite young. Perfects the crop all at once, hence valuable as a market sort. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, bus. \$11.

EARLY RED VALENTINE. This variety is valuable on account of its earliness. Pods very fleshy, round and saddle-backed, with slight strings. Bushes grow uniformly about 15 inches in height and produce a large crop. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, bus. \$12.

DWARF HORTICULTURAL. Pods are medium in length, slightly curved, and when nearly developed are splashed with bright red on a yellow skin. The green-shelled Beans are of fair size, tender, and fine flavored. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, bus. \$12.

REFUGEE, or 1,000-to-1. One of the latest Beans. The pods are nearly round, light green, 5 inches long, terminating in a slender point; fleshy, brittle, and mild in flavor, with but slight strings. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, bus. \$11.

DWARF or BUSH WAX-PODDED BEANS

SURE-CROP STRINGLESS WAX. The plant grows to a large size and, having a strong, thick stem, stands up well even during a long season of stormy weather, thus protecting the pods from dirt and dampness. It is very productive, bearing in great abundance large, handsome, golden yellow pods which are stringless and tender at all stages of development. Being very hardy, the seed may be planted early. Sure-Crop is more rustproof and will stand a longer season of damp, wet weather than any other Stringless Wax Bean. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$12.

HARDY WAX. One of the best round-podded stringless Wax Beans ever evolved. The plants have thick, leathery leaves which resist cold, blight and plant diseases to a marked degree. Within 65 or 70 days of planting, Hardy Wax bears immense crops of slightly curved deep yellow pods. Remains in bearing for a remarkably long period. Pkt. 15 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, bus. \$12.

IMPROVED GOLDEN WAX. A very early variety with flat, golden pods. Pkt. 10c., $\frac{1}{2}$ lb. 20c., lb. 35c., 2 lbs. 65c., 5 lbs. \$1.60, bus. \$12.50.

POLE or RUNNING BEANS

One pound will plant 200 hills

OLD HOMESTEAD (Green Kentucky Wonder). An improved sort of this well-known Bean. The pods are entirely stringless and of silvery green color, hanging in large clusters from the top to the bottom of the pole. One of the most prolific. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85.

KENTUCKY WONDER WAX. A Pole Bean that is quicker to yield from seeding than most others. The long pods are meaty, brittle, and of good flavor. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85.

LAZY WIFE. Green-Pod. The best late, green-podded Pole Bean. The pods are of a medium dark green; broad, thick, very fleshy and entirely stringless. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85.

BRUSSELS SPROUTS

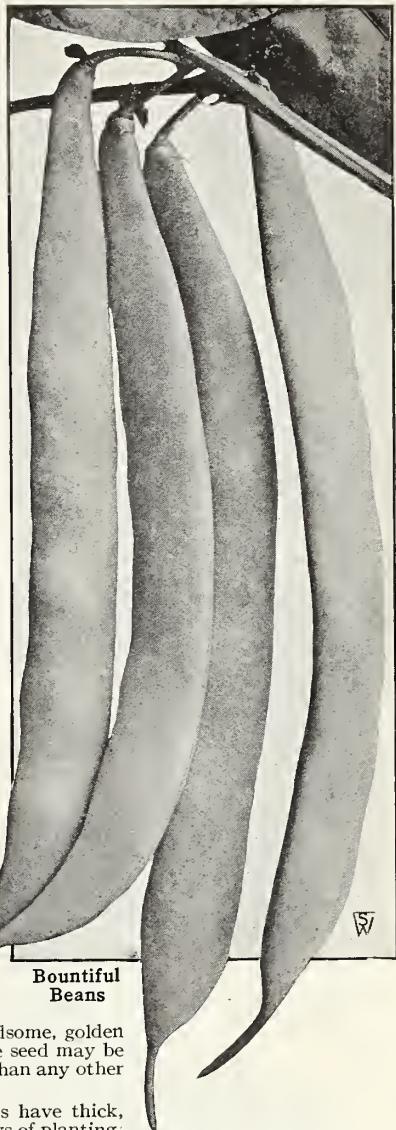
One ounce will produce about 3,000 plants

CULTURE.—Sow in May, in shallow drills, 1 inch deep and 12 inches apart. Transplant in July. When the crown, or top sprout is beginning to head, pinch it out, to admit of the whole strength being thrown into the side shoots. Very hardy. This is a delicious vegetable and should find a place in every garden; greatly improved by first frosts.

S. & W. CO.'S FAVORITE. New. Semi-dwarf, thickly covered with sprouts by the end of September; excellent. Pkt. 15 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$5.



S. & W. Co.'s Favorite Brussels Sprouts



BEETS

One ounce will sow 100 feet of drill;
5 to 6 pounds to the acre

CULTURE.—Seed should be sown the latter part of April. The ground should be spaded well and deep, placing rows about 18 inches apart, and the drills 1 inch deep. Cover the seed carefully and firm in the ground by walking over the drills. When seedlings appear about 3 inches above ground, thin out to about 4 inches between the plants so as to give ample room for the proper development of the bulbs. Beets are best for pulling when about 2 inches in size. Successive sowings may be made up to the middle of July.

ROUND TYPES

CROSBY'S ORIGINAL EGYPTIAN. One of the most widely grown turnip-shaped Beets in cultivation today. Will produce Beets ready for pulling within two or three days after Eclipse. The smooth, dark red roots are topped with light green foliage, which is prominently speckled with dark red. The flesh is carmine, handsomely marked with white zones, very tender and of uniformly sweet quality.

Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

EARLY WONDER. A variety which has gained wide popularity among market-gardeners, and one which the amateur may also grow with every confidence. It may be sown early, and it matures very rapidly. It is so uniform in growth that the crop can be lifted practically at one time, yielding the land early and quickly for the second crop. The root is nearly globular in shape, slightly flattened. The leaves are of medium size, and the color of the flesh is deep blood red. Pkt. 15 cts., oz. 30 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.

DETROIT DARK RED. Extended experience has shown that this Beet comes nearer the ideal than any other, and where but one variety is used this should be the first choice. The round, dark red globe roots are uniformly smooth. The flesh of the very young Beets is almost black-red, turning to dark crimson with dark purple zones as the Beets grow larger. When cooked, the Beets are of an appetizing dark red and very sweet. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

S. & W. CO.'S WINTER KEEPER. A distinct strain of a main-crop, globe-shaped

Beet produced by many years of painstaking selection on the part of a grower who takes particular pride in striving after high ideals in seed selection. Two leading characteristics make this Beet worthy of any gardener's time and space: the uniformly excellent flavor of its flesh at all stages of development and the remarkable manner in which this quality is preserved during winter storage. Beets are almost globe-shaped, tapering somewhat toward the root. The flesh is dark red, sweet and tender at all stages of growth regardless of size. They may be stored in a cellar or pit until the spring, and will cook more tender and sweet than ordinary varieties will when taken from the garden. Pkt. 15 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

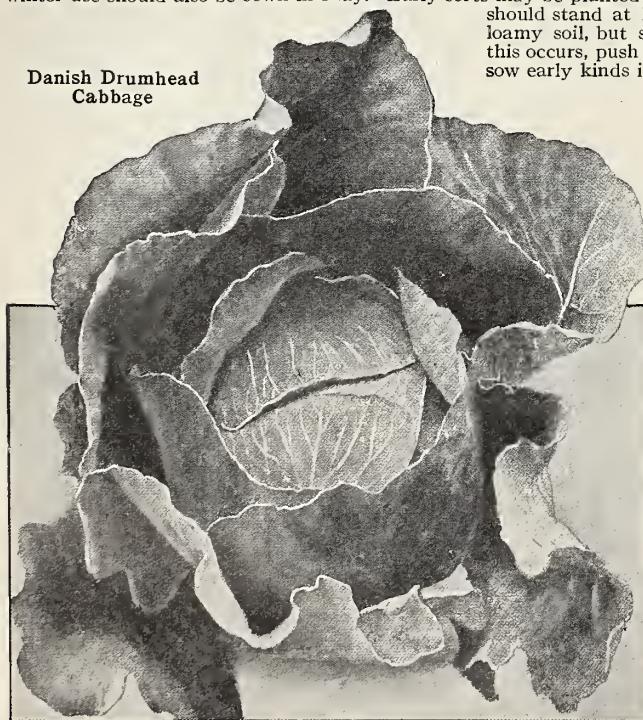
CABBAGE

One ounce will produce about
3,000 plants

CULTURE.—Sow early kinds in hotbeds in February and March, and in the open ground during April and May. Late varieties for fall and winter use should also be sown in May. Early sorts may be planted in rows 2 feet apart, with 20 inches between plants in the row; late kinds

should stand at least 2 feet each way. To be well grown, Cabbages require a deep, rich, loamy soil, but should it be too rich some late kinds may show signs of bursting. If this occurs, push the plants over to one side and so check their growth. For spring use sow early kinds in September; when large enough to handle, transplant into a coldframe.

Danish Drumhead
Cabbage

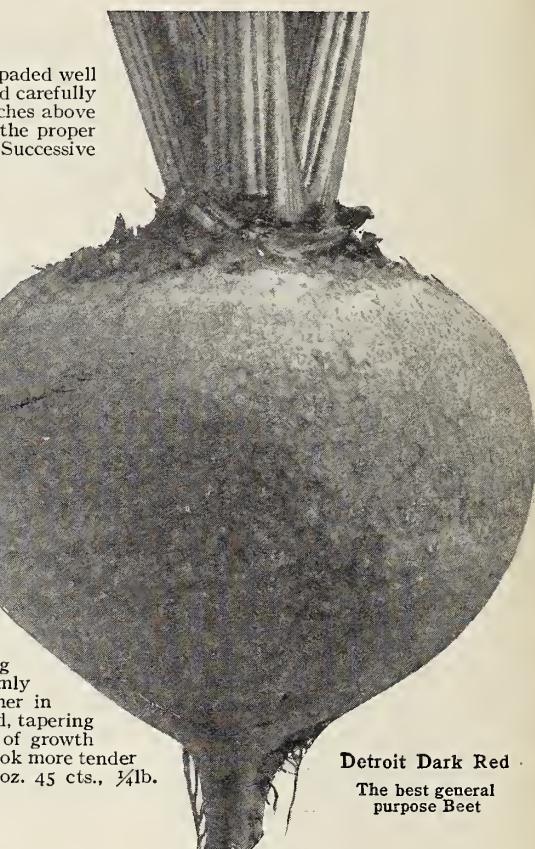


Club Root in Cabbages. There appears some doubt as to the cause of Club Root. Most of us believe that the bacteria of the disease are present in some soils but not in others; recent investigation, however, tends to show that Club Root can be carried by germs adhering to the seeds. We advise sterilizing Cabbage seed by steeping for 20 minutes in one ounce of formaldehyde diluted with 2 gallons of water. Wash in clear water and spread seed in the air to dry.

COPENHAGEN MARKET. The best of all early Cabbages. Stands longer without bursting than other early sorts. Everyone familiar with the Cabbage knows the old and popular Danish Ballhead, the best of all late Cabbages. This new, extra-early variety, ripening with Charleston Wakefield, also originated in Denmark, and is as good, in its class, as the old favorite Danish Ballhead. The stem is short, the head round and solid. When ready for cutting, Copenhagen Market is the heaviest of the extra-early varieties, and if left until fully mature, frequently weighs 8 to 10 pounds. The leaves are small, compact and close to the head, so it will stand close planting. The inside is fine-grained, tender, pure white and compact. A leader for the home-garden and market. Pkt. 20 cts., $\frac{1}{4}$ oz. 35 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1.10, $\frac{1}{4}$ lb. \$4.

IMPROVED EARLY JERSEY WAKEFIELD. While this variety is not quite so early as S. & W. Co.'s Famous Early Conical, it has been long considered as the best early conical-type Cabbage which we have. The heads are hard and solid with just a few outside leaves, which are unusually thick, enabling them to stand cold weather when wintered in coldframe. Pkt. 15 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2.

DANISH DRUMHEAD. Averages much larger size than the Ballhead; is about two weeks earlier; fine-grained and sweet-flavored; the best Cabbage for winter use. Pkt. 20 cts., $\frac{1}{4}$ oz. 35 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1.10, $\frac{1}{4}$ lb. \$4.



Detroit Dark Red

The best general purpose Beet

STUMPP & WALTER CO.'S SELECTED SEEDS

CABBAGE, continued

LARGE LATE FLAT DUTCH. One of the most reliable in cultivation for winter use; produces immense heads of the finest quality; splendid keeper. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50.

MAMMOTH ROCK RED. This is by far the best, largest and surest-heading Red Cabbage ever introduced. The plant is handsome, with numerous spreading leaves. The head is large, round, very solid. Pkt. 15 cts., $\frac{1}{2}$ oz. 45 cts., oz. 80 cts., $\frac{1}{4}$ lb. \$2.50.

AMERICAN DRUMHEAD SAVOY. None of the late-growing varieties can begin to equal in flavor this sort for family use; heads large. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$1.75.

PE-TSAI, CHINESE or "CELERI" CABBAGE. Pe-Tsai produces beautiful, crisp, celery-like heads that somewhat resemble Cos lettuce. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$1.75.

CARROT

One ounce will sow
100 feet of drill

CULTURE.—To produce the finest crop, the land should be thoroughly manured the previous season; forked roots will result if the seed is sown on freshly manured soil. Sow the early sorts in March and April, in drills 1 inch deep and 14 inches apart; thin out to 4 inches. For main crop sow in May or beginning of June. Care should be taken, at all times, to see that soil is firm over the seeds, either by means of the feet, roller, or garden drill.

SELECTED CHANTENAY. A very splendid type of the half-long, stump-rooted Carrot. Averages $5\frac{1}{2}$ to 6 inches in length, broad at the neck, narrowing gradually to a blunt end. The flesh is rich orange-red, free from core, tender, fine flavored, and of excellent table quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

EARLY SCARLET HORN. Favorite for early crop but not large. Considered a good general-purpose all-season variety since, sown late in the season, the roots are firm enough for winter storage. Sometimes used for forcing. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

SELECTED DANVERS. A handsome, cylindrical-shaped Carrot of good size and stump-rooted. It is of a rich, dark orange color, grows to large size, is smooth, and has little core. It is a first-class Carrot for all soils, yields a greater weight per acre than any other variety, and is more easily harvested than the old long varieties. This selected stock we are now offering has been specially grown for market-gardeners and is sure to give satisfaction. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

CAULIFLOWER

One ounce will produce
about 3,000 plants

CULTURE.—Sow the first week in May and prick out on a rich piece of ground; transplant in July. For wintering under glass sow in the second and last week in September; transplant thickly into a cold pit or frame; give plenty of air in mild weather, and cover up well when conditions are severe. Again sow in February in a hotbed and transplant in April. For Cauliflower the ground should be well prepared by trenching, incorporating at the same time a good share of rotten manure. Select new ground, if possible, as Cauliflower rarely succeeds on soil which has been cropped year after year with other kinds of vegetables. Plant in rows 20 inches apart and 2 feet between the rows. To be successful with this vegetable, rich soil and abundant moisture at all stages of development are absolutely essential. Cauliflower does not form solid heads in hot, dry climates.

EARLY SNOWBALL. This wonderful, sure-heading variety is of characteristic dwarf habit, the outer leaves being small, hence it is particularly adapted to growing under glass during winter and spring. Snowball is the most popular Cauliflower grown in America today, and the S. & W. strain is used so largely by commercial growers because of the solidity and purity of its head, its large size, and its uniform reliability. Pkt. 20 cts., $\frac{1}{2}$ oz. 70 cts., $\frac{1}{2}$ oz. \$1.30, $\frac{1}{2}$ oz. \$2.50, oz. \$4.50.

CELERI

One ounce will produce
3,000 plants

CULTURE.—Sow the seed in a coldframe or dry border as early as the ground can be worked, in drills 8 to 10 inches apart, covering the seed $\frac{1}{4}$ inch deep. When fairly out of the seed-leaf, they may be transplanted to another bed or thinned out to 5 or 6 inches apart, and allowed to grow until wanted for transplanting out into the beds or trenches. Early in July is the proper time to set out plants in the trenches, or as soon after early July as possible. Rows or double rows should be 3 feet apart and the plants set about 8 inches apart in the row. As the plants grow, they should be earthed up to blanch them, care being taken not to let the earth get into the heart of the plant. For keeping over the winter, they can be banked up with earth and covered over with litter to protect from frost where they have grown, placing boards on top to keep out the rain.

NEW EASY-BLANCHING. The easiest of all Celeries to blanch and as good a keeper as any late sort, though quite an early sort to mature. The flesh is crisp and brittle, the flavor particularly attractive. New Easy-Blanching combines ease of cultivation, early maturity, high quality and good keeping properties. Pkt. 20 cts., $\frac{1}{2}$ oz. 75 cts., $\frac{1}{2}$ oz. \$1.40, oz. \$2.50, $\frac{1}{4}$ lb. \$8.50.

PARIS GOLDEN SELF-BLANCHING. (Grown in France by the originator.) This strain of Celery somewhat resembles the White Plume variety, but is much superior. It is entirely free from the green type and does not grow soft or pithy as most strains of Self-Blanching do. Rich golden yellow, solid, and a splendid Celery for family or market-gardeners' use. Pkt. 20 cts., $\frac{1}{2}$ oz. 55 cts., oz. \$1, $\frac{1}{4}$ lb. \$3.50, lb. \$12.

IMPROVED WHITE PLUME. One of the most popular, because it is not necessary to bank up as with other Celeries. It is tender and of the very best flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$2, lb. \$7.50.

CELERIAC, GIANT PRAGUE. Very large roots, for soups and stews; when cooked and sliced makes fine winter salad. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3.

CHICORY

Chicory is cultivated chiefly for its roots. The leaves, when blanched, make an excellent salad.

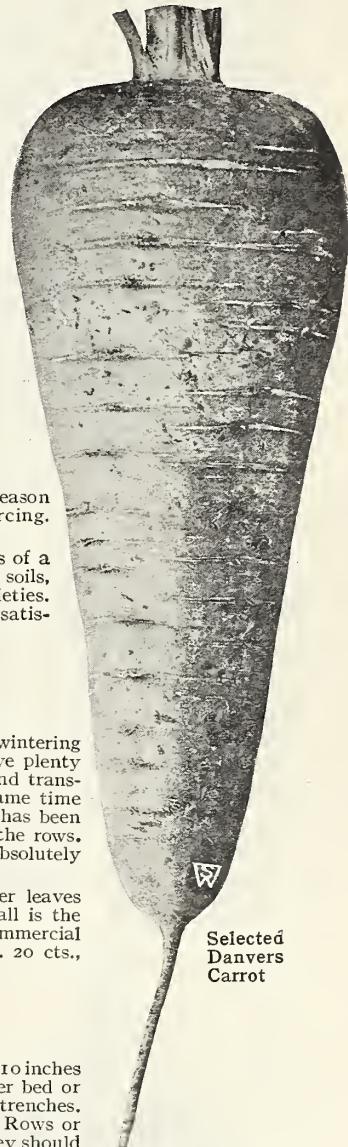
LARGE-ROOTED. The young leaves are used for salad, and the roots when dried, roasted and ground are used for adulterating coffee. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

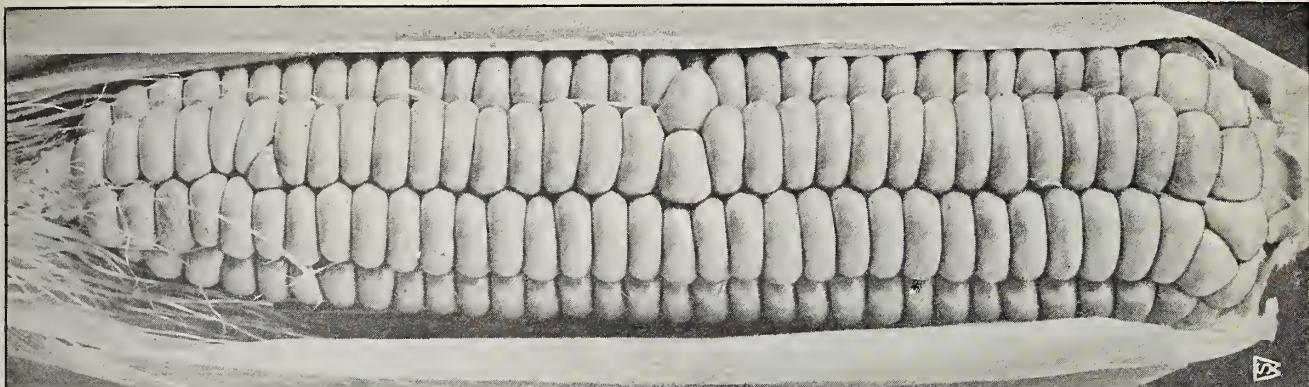
WITLOOF. Known in restaurants as "French Endive." Valuable as a salad as well as a vegetable. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

CORN SALAD

One ounce will plant
150 feet of drill

LARGE-SEEDED, ROUND-LEAVED. A delicious salad for late fall, winter, and early spring use. The leaves are also used for garnishing meat dishes. Sow the seed, during July, August, and September, in rich soil in shallow drills, and cover with $\frac{1}{4}$ inch of soil. Matures in sixty to sixty-five days. The frost makes leaves tender; they can be cut and used any time during the winter and early spring. Serve with a French dressing. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.





Golden Bantam. The standard for quality by which others are judged

SUGAR CORN

One pound will plant 200 feet of drill or 200 to 300 hills

CULTURE.—Plant for succession of crops every three weeks, from April to July, in hills 3 feet apart each way, and six seeds in a hill; cover about half an inch; thin out to three plants.

GOLDEN BANTAM. Perhaps the sweetest Corn grown; *the standard for quality by which others are judged*. Plant attains a height of only 3 to 4 feet, usually bearing two or more ears to the stalk. The ears are compactly filled with kernels which when ready for the table are cream-yellow. Golden Bantam is one of the hardest varieties of Corn grown, therefore it can be planted with safety earlier than other varieties. This characteristic also adapts it to localities having cool summer weather, a continuous supply being maintained by successive plantings. (See illustration of a typical ear.) Pkt. rec., $\frac{1}{2}$ lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. \$1.85, bus. \$10.

METROPOLITAN. Combines the three essentials of a good Sugar Corn, namely, earliness, productiveness, and unusually superior flavor. The ro-rowed ears are 8 to 9 inches long and they are crowded with tender, melting grains. In our opinion the best early white Corn. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$11.

NOTE.—The American Seed Trade generally has adopted the central system of pricing Corn, Beans, and Peas. We therefore offer by weight instead of measure. One pound of Corn is equal to about $1\frac{1}{2}$ pints; 2 pounds to about $1\frac{1}{2}$ quarts; the average weight of a bushel of Sweet Corn is 45 pounds.

COUNTRY GENTLEMAN. Retains its delicate flavor and tenderness even when a little old, as the ears are encased in a heavy husk, which tends to keep the ear "in the milk" for several days longer than other varieties. The cob is unusually small and the pearly white kernels of great depth. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$11.

STOWELL'S EVERGREEN. Now recognized everywhere as a standard variety, both for home use and market, and is the general favorite. The ears are of large size, grains deep, exceptionally tender and sugary, and have the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all late sorts. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$12.

S. & W. CO.'S MIDGET. Plants are but 30 inches high, yielding many tiny 4-inch ears of fine quality. Pkt. 50 cts.

One pkt. each of the above varieties, except Midget, 35 cts. postpaid.

COLLECTIONS: Bantam, Metropolitan, Country Gentleman, Stowell's

$\frac{1}{2}$ lb. each of the above 4 varieties, 85 cts.
1 lb. each of the above 4 varieties, \$1.35.

2 lbs. each of the above 4 varieties, \$2.25
5 lbs. each of the above 4 varieties, \$6.50.

CHERVIL, MOSS CURLED

One ounce will sow 150 feet of row

Cultivation same as parsley. The young, aromatic leaves are used in soups and salads. Leaves are slight, bright green, crisp, curled, and very much divided. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

CRESS (Pepper Grass)

One ounce will sow
100 feet of drill

CULTURE.—Sow early in the spring. The leaves are crisp, tender, and pungent in flavor. Sow at short intervals for succession, as it soon runs to seed.

CURLED, or PEPPER GRASS. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

TRUE ERFURT WATER CRESS. Pkt. 15 cts., $\frac{1}{2}$ oz. 35 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$1.95, lb. \$7.

EGGPLANT

One ounce will produce
about 1,000 plants

CULTURE.—One of the most delicious vegetables grown, yet it is not cultivated to the extent it would be if its superior table qualities were better known. Sow during March, in a warm hotbed in light rich soil, or fill a shallow box with a similar mixture and after sowing place in the full light of a warm window. Transplant or thin so that the young plants stand 3 inches each way or, better still, put out individually into small pots. Always keep the young plants warm and do not plant out until settled fine weather has arrived. They need to stand 2 feet apart each way when put outside where they are intended to fruit.

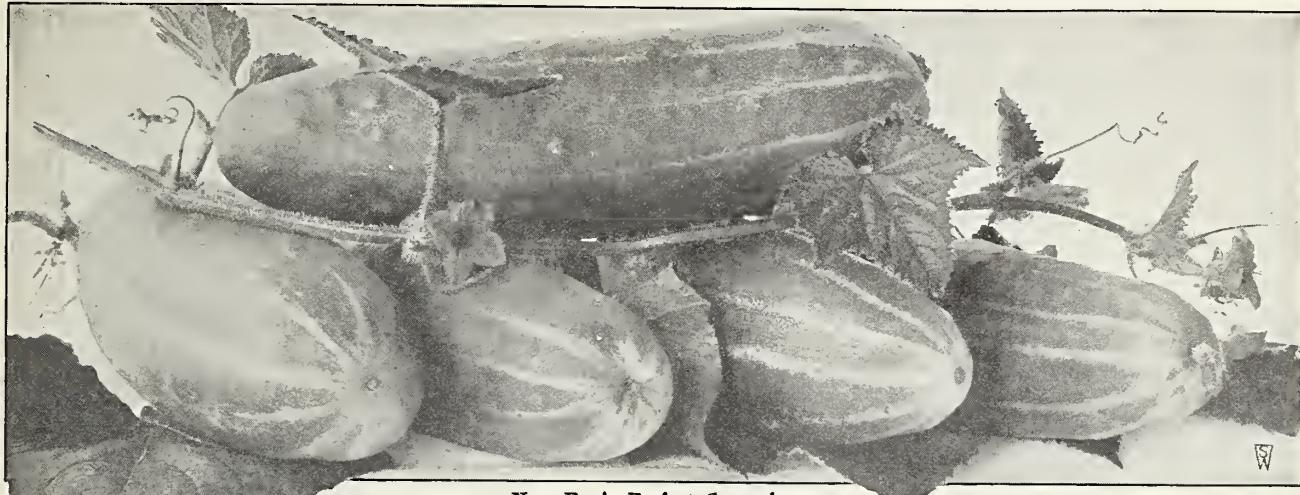
NEW YORK IMPROVED SPINELESS. This variety is grown more than any other and is a favorite for both market and family use. The fruit is large, round, of a rich deep purple-black. In spite of their size they are produced freely and continuously. The stems and calyxes of this variety are entirely free from spines. Pkt. 15 cts., $\frac{1}{2}$ oz. 40 cts., oz. 70 cts., $\frac{1}{4}$ lb. \$2.50.

BLACK BEAUTY. Is very much on the style of New York, but it is darker in color and has a higher polish. It is also broader and thicker. Pkt. 15 cts., $\frac{1}{2}$ oz. 45 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.75.



New York Improved Spineless Eggplant

STUMPP & WALTER CO.'S SELECTED SEEDS



New Davis Perfect Cucumbers

CUCUMBER

One ounce will plant
about 50 hills

CULTURE.—The first planting should be made early in May, on partly spent hotbeds; inverted sods form an excellent medium for both planting on and carrying the young plants to their permanent location, or small paper pots can be used. Such plants are usually ready for transplanting to the open ground in from three to four weeks, and are seldom troubled with the striped bug. Transplanting, when practicable, should be done in the evening, into hills 4 feet apart each way. Thin out to about four plants to a hill when established. The seed may be planted in hills late in May, thus giving a succession. For pickles, plant during the last two weeks of June. Bug Death, or an infusion of hellebore powder in water, will destroy the striped bug.

IMPROVED EARLY WHITE SPINE. The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth and of deep, rich coloring marked with distinct white lines at the blossom end. Is splendid as a table Cucumber. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

EXTRA-LONG GREEN. A well-known standard variety about 1 foot in length, of most excellent quality, and when young makes the best of pickles. When ripe it is the best of any for sweet pickles. Vines vigorous and very productive. Our strain of this valuable sort is unsurpassed by any, being carefully selected from the best fruits. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

NEW DAVIS PERFECT. In color, a dark, glossy green; shape slim and symmetrical, with an average length of 10 to 12 inches. (See illustration.) Quality fine, as the seeds are very soft when fit for table use. Flesh tender and brittle, and of good flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

FORDHOOK PICKLING. One of the best and most prolific varieties for producing pickles of medium size for both home or market use. Vines are very vigorous, yielding a large number of fruits; remaining in strong, healthy, growing condition longer than any other known variety. The skin is very tender and remains so when pickled. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

DANDELION One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the year in drills 1 foot apart, covering the seed no more than $\frac{1}{4}$ inch. Thin the plants to stand 4 inches apart. Dandelion may be blanched like endive, for salad purposes, or it may be sown later in the season, plants covered lightly with salt hay, and the following spring they will be fit for use as early greens.

FRENCH GARDEN. Pkt. 15 cts., $\frac{1}{2}$ oz. 35 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$2, lb. \$7.

ENDIVE One ounce will sow 200 feet of drill

CULTURE.—One of the most attractive of all autumn and winter salads. It is commonly known in restaurants as Chicorée, and is especially refreshing when served as lettuce with plain French dressing. Sow seed from middle of June till last of August. When the plants are fully grown, tie all the outside leaves together over the heart, to blanch the inner leaves, which will take about a week. Do not tie up when the leaves are wet, as they will then decay.

BROAD-LEAVED BATAVIAN (Escarolle). The leaves are broad and thick, more or less twisted and waved, with round ends and are of a bright deep green with a nearly white midrib. They are much larger in size, thicker and more fleshy than those of the preceding sorts. The inner leaves form a fair head which blanches a creamy white. In its natural state Escarolle forms an excellent salad with an appetizing piquancy. It may be gathered fresh from the ground well into winter, thus furnishing salad at a season of the year when it is most welcome. Escarolle is also frequently served as spinach, when its flavor and health-giving properties render it of high value. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

GREEN CURLED. The hardiest and most vigorous variety. The leaves are bright green, finely cut and wrinkled, giving the plant a handsome appearance. Blanches easily a creamy white. Pkt. 10c., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

KALE

One ounce will produce about 300 plants

CULTURE.—Sow in May in shallow drills; when large enough, transplant singly into rows, allowing 24 inches between the plants. The cooking quality of Kale is improved by frost.

DWARF GREEN CURLED SCOTCH. This withstands frost better than cabbage. In fact, it is not at its best until cold weather has set in. The leaves are curled like fine parsley. As boiled "greens," Scotch Kale is tender and of remarkably fine flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

DWARF BROWN KALE. A beautiful curled variety, with spreading foliage; very hardy and of fine flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

KOHLRABI

One ounce will sow about 200 feet of drill

CULTURE.—This is a very delicious vegetable, and is increasing in popularity rapidly; combines the good qualities of the turnip and cabbage, but excels both in nutritive and productive qualities. Cooked the same as turnips, they are very tender and palatable. Sow in spring in rows 18 inches apart, and thin away the plants to 6 inches.

EARLY WHITE VIENNA. The earliest and best for either market or family use. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.

EARLY PURPLE VIENNA. Similar to the preceding, except in color, which is of a bluish purple. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

LETTUCE

One ounce will sow
150 feet of drill

Because the number of good sorts of Lettuce is so great as to prove bewildering to the majority of home-gardeners, we have selected for them the following, which, in our many years of experience, have never disappointed where the cultural directions were followed.

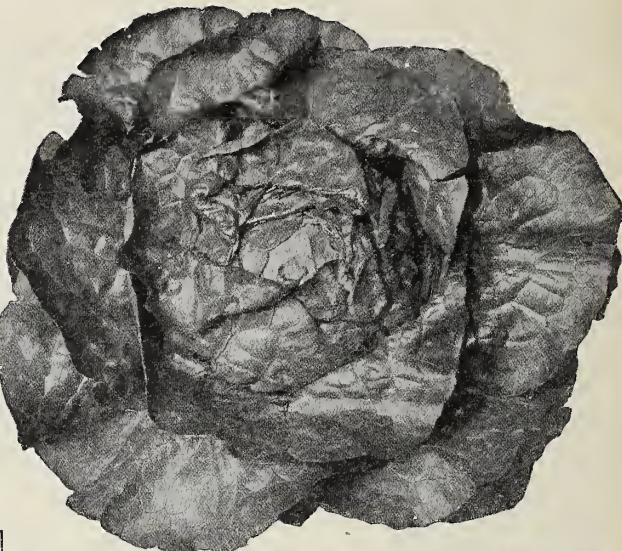
CULTURE.—About the middle of March sow either Big Boston or May King, in the hotbed. When seedlings are about 2 inches tall, transplant them 4 inches apart each way in a coldframe. By May 1, after properly hardening them, set out in the garden, 1 foot apart in the row, with a 2-foot path between the rows. These plants should give you firmly folded, well-developed heads by Decoration Day. As soon as the ground can be worked outdoors, plant seeds of any of the early sorts in rows, $\frac{1}{4}$ inch deep. As soon as seedlings are 3 to 4 inches tall, thin them to stand 4 inches apart in the row. Later on remove every other one and do this again until the plants finally stand 16 inches apart in the row. Then hoe *between* the plants as well, in order to secure good heads. After the middle of May, do not sow seeds of early kinds, but select sorts like New York and Iceberg instead. Make repeated sowings of short rows to have a crisp product available constantly.

BIG BOSTON. A splendid head Lettuce, perhaps the most generally and favorably known of the ten mentioned here. Forced in frames to great extent in the spring and is also planted in August for late crop. Does not do well for midsummer use, but as a fall or early spring Lettuce is one of the best. Large heads; center crisp and of fine flavor. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

EARLY CURLLED SIMPSON. A splendid curly-leaved sort. Seed sown in the coldframe about the middle of March and transplanted about the middle of April will supply the table from May until the middle of June. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.25.

MAY KING. Unquestionably one of the best all-round, early, outdoor Lettuces. Does remarkably well in cold or wet weather, forming solid heads of bright green, the edges of the center leaves tinged reddish brown; the heart is clear yellow and of ideal flavor. If sown the same times as Wayahead, May King will be ready about four to five days later. This variety is sown in August for fall use. Pkt. 10 cts., oz. 30c., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

PARIS WHITE COS, or ROMAINE. A splendid sort for summer use; leaves quite erect. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.



Big Boston. Everybody's Favorite for outdoor use and forcing

ICEBERG. (California Simpson.) A splendid, crisp-head sort. Few Lettuces resist the heat better. Has strong center ribs, which bend toward the heart of the plant, keeping it thoroughly blanched. Repeated sowing from early May, of this sort and New York or Wonderful, at intervals of three weeks, should supply the table well up to September 1. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.

NEW YORK, or WONDERFUL. This variety grows considerably larger than Iceberg and matures about ten days later. The outer foliage is a distinct, dark green as compared with the yellowish green of Iceberg. Pkt. 15 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

LEEK

One ounce will sow about
100 of drill

CULTURE.—Sow the seed very early in a seedbed in a sheltered place, if possible. When plants are about 6 inches long transplant them to trenches 6 inches deep, with very rich soil at the bottom. Fill up the trenches as the plants grow, and later draw soil up to them. As a result you will have fine, large Leeks blanched half a foot long, which may be kept all winter if dug up with the roots on and stored in moist sand in the cellar.

LARGE AMERICAN FLAG. A large-growing type, desirable in every way. On account of its dependability and ease of culture, is the most widely used variety for both family and market use. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.

MUSTARD

One ounce will sow
75 feet of drill

CULTURE.—Sow frequently through the spring, in drills from 8 to 12 inches apart.

GIANT SOUTHERN CURLLED. The plant grows 3 feet tall, and the broad succulent leaves are cut and frilled. The variety makes excellent boiled "greens." Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

WHITE LONDON. The best variety for sandwich material and for salads, when it is used in the seedling stage but a few days after sowing. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

MUSHROOM SPAWN

Ten bricks will spawn 10 feet square

CULTURE.—"I have the fresh horse droppings saved until a sufficient quantity accumulates to fill the beds, occasionally turning the manure and watering it slightly if it appears not to be moist enough. Then I leave the mass for three days, after which I again turn it, adding more water if necessary. After turning, I firm the manure, and in three days again repeat the operation. The most particular part is to get the manure moist enough and yet not too moist. After the second turning the manure is generally ready for the bed. My beds are only 10 inches in depth. I press in the manure very firmly, and cover slightly with salt hay or straw, which tends to retain the moisture in the bed. When the temperature of the bed drops to 85°, I insert 'Pure Culture' Spawn in pieces about the size of an egg, 1 foot apart one way and 9 inches the other. I insert the Spawn just deep enough to cover with a little manure. I keep the temperature of the house between 55° and 60°, and occasionally dampen the walls, etc., as required; also occasionally 'dew' over the hay covering the bed with warm water. If the Spawn runs properly, a white, frothy substance will be observed in about ten days or two weeks. I then remove the hay and cover with one-inch thickness of sifted soil, preferably good pasture loam, firming it down. Mushrooms will generally appear in from six to eight weeks. I always have a little finely sifted soil on hand, and fill all the holes up after gathering the Mushrooms—that is, the holes made by removing the stalks. With good care the bed will last three months. Should it appear dry, water thoroughly with water heated to 90°, in which a pinch of nitrate of soda dissolved will be found very beneficial. In conclusion, I may say I think most of the failures in mushroom-growing arise from the manure being too dry."—JOSEPH ROBINSON.

AMERICAN PURE CULTURE SPAWN. This type produces larger Mushrooms than the English, coming into bearing somewhat earlier, and continuing to crop for a long time. This spawn is produced by selecting spores from individual specimen Mushrooms, and is propagated and transferred to the bricks of manure, which, when planted, produce Mushrooms all of one type. Ten pounds will spawn 10 square feet. Per Brick (about 1½ lbs.) 35 cts., 10 Bricks \$3.25, 25 Bricks \$7, 100 Bricks \$25.

ENGLISH MUSHROOM SPAWN. As most growers of Mushrooms recognize the superiority of the American Pure Culture over the English we have decided to discontinue handling the latter.

MUSKMELON

One ounce will sow about 80 hills

CULTURE.—Sow the seed in April under hand glasses, and in the open air in May in hills 6 feet apart each way. Plant in each hill from 8 to 10 seeds, covering half an inch deep. When the plants have produced their rough leaves, thin out to three plants. The hills should be prepared by trenching in rotten manure and sand. As soon as the plants make their appearance above ground, dust them with soot, charcoal dust or Bug Death, to prevent the ravages of the bug.

Green-Fleshed Kinds

S. & W. CO.'S SELECTED STOCK, ROCKY FORD. This famous variety is the finest early green-fleshed melon in cultivation. The fruits are remarkably uniform in size, weighing from $1\frac{1}{4}$ to $1\frac{1}{2}$ pounds each. They are quite thick meated, with very thin rinds; skin light green, regularly ribbed and heavily netted, turning to a golden yellow as the melon ripens. Flesh light green in color, firm but melting and of uniformly fine flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

HONEY DEW. This variety, with its clear light yellow skin, is becoming quite familiar in the best markets. No other melon is quite so sweet as this, and it is not surprising that it should become so popular. The flesh is green, very thick, and unlike some Melons it ripens uniformly to the rind. Pkt. 15 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$5.

Orange-Fleshed Kinds

SELECTED EMERALD GEM. The skin is a rich deep green, and smooth; flesh salmon color and of delicious flavor. A very early and prolific variety and one that is very extensively grown for family use. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

SUPREME. Well grown fruits weigh as much as 15 lbs. each. The delicate salmon-tinted flesh is of exquisite flavor. Pkt. 25 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

WATERMELON

One ounce will plant about 50 hills

CULTURE.—Treat the same as muskmelon, except that they should be planted 8 to 10 feet apart, according to variety.

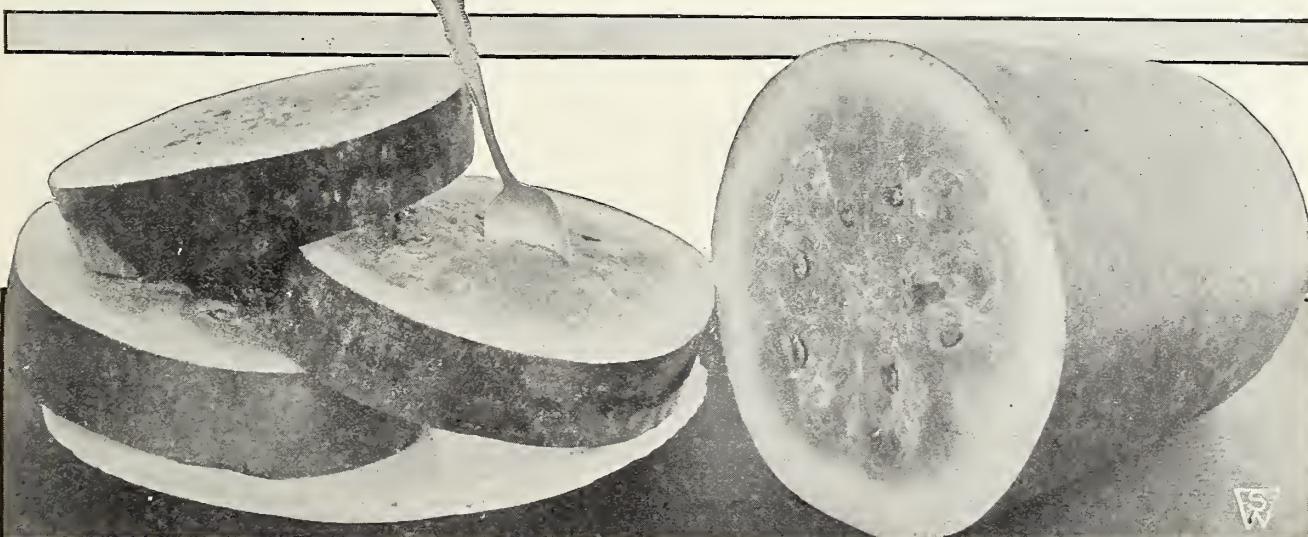
COLE'S EARLY. A most delicious and productive variety for the family garden, succeeding in northern states, where melons were never matured before. The flesh is of a beautiful bright red color, crisp and extremely delicate in texture—that granulated, cool, sparkling appearance that is so captivating to the eye; in flavor it is lusciously sweet and refreshing, no pithiness or stringiness. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.



S. & W. Co.'s Selected Stock, Rocky Ford. The most popular green-fleshed Muskmelon

KLECKLEY SWEETS. The sweetest of all the Watermelons. Fine-flavored and grained, tender meat. Fruits are large size; rind very thin and green, very brittle; flesh scarlet and firm; and a variety everyone should grow. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65c., lb. \$2.

TOM WATSON. A large, long melon, with a tough rind. The vines are vigorous and productive, while the flesh is rich red, sweet, and tender. A variety to be recommended. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



Kleckley Sweets. The sweetest of all Watermelons

Collection

One packet each,
three varieties
Southport Globe
Onions:

**RED, WHITE,
YELLOW,**
for 25 cents.



S. & W. Co.'s Southport Globe Onions

YELLOW GLOBE DANVERS. Of more globular shape than the Southport; a splendid keeper, producing well-rounded bulbs about $2\frac{1}{2}$ inches in diameter; skin light golden yellow; flesh white, crisp, and mild in flavor. One of the best-known Onions, and recommended strongly for the general crop. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

ONION SETS The Reason for Planting Onion Sets

Our Globe Onion Sets will produce Onions much earlier than by sowing the seeds, which frequently permit the planter to sow another crop on the land the same year. For green or bunch Onions, sets will produce a crop in half the time it takes to raise them from seed. Plant Onion Sets and Tops near the surface in drills 12 inches apart and 4 inches in the rows.

White Onion Sets

Yellow Onion Sets

Red Onion Sets

Qt.	$\frac{1}{2}$ pk.	Pk.
\$0	35	\$1 30
30	1 10	2 00
30	1 10	2 00

OKRA, or GUMBO

One ounce will sow about 100 feet of drill

CULTURE.—Sow when the weather is warm and settled, in drills 1 inch deep and 4 feet apart; thin out to 12 inches apart in the drills. Okra requires 9 or 10 weeks from seed to maturity. Usual sowing period for New York, May 25 to June 10.

LONG GREEN. Long ribbed pods; very productive. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

WHITE VELVET. Very distinct in appearance; pods are perfectly round, smooth and of a white velvety appearance and of superior flavor. Pkt. 10c., oz. 15c., $\frac{1}{4}$ lb. 50c., lb. \$1.50.

PARSNIP

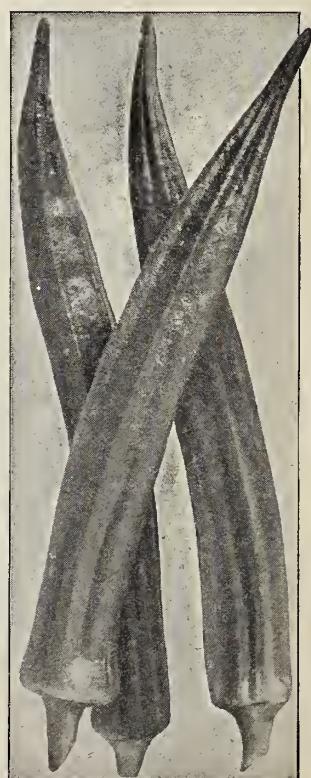
One ounce will sow about 200 feet of drill; 5 to 6 lbs.
for an acre

CULTURE.—Sow as early in spring as the ground can be worked, in drills 18 inches apart, covering with fine soil to the depth of $\frac{1}{2}$ inch. The soil should be rich and deeply dug. The quality of the roots is much improved after a severe frost; in fact, they may be allowed to remain in the ground throughout the winter, as they are perfectly hardy.

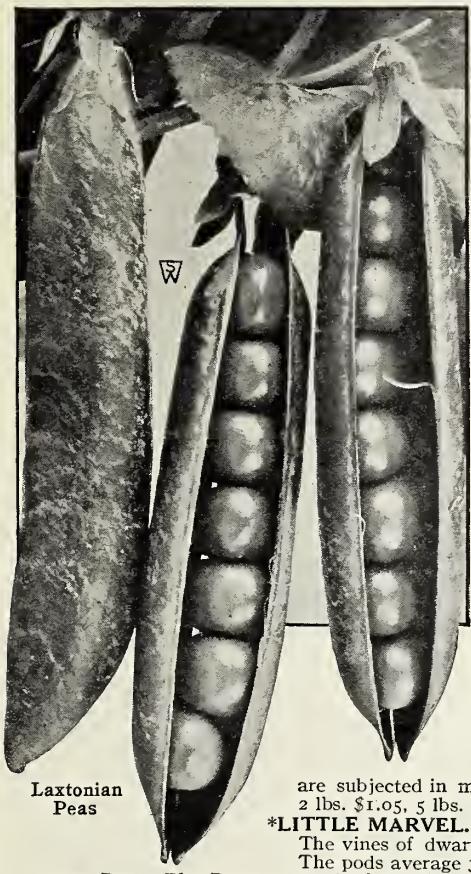
S. & W. CO.'S IMPROVED HOLLOW-CROWN. A great improvement over the present Hollow-Crown variety; clean, well shaped and smooth. Smoothness in the root of a Parsnip is a matter of importance, as every housewife preparing it for the table will acknowledge. Excellent for table or exhibition. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.



Hollow-Crown Parsnips



Okra



One pound will plant
100 feet of drill

PEAS

NORTHERN-GROWN

CULTURE.—For early crops sow as early in spring as practicable, and again every two or three weeks for a succession throughout the season up to the 1st of August. Plant in single or double rows, 4 feet apart and 2 inches deep. In dry weather soak the Peas over night before planting. In the vicinity of New York the extra-early Peas, if planted from the 15th to the last of August, will produce a medium crop for late picking when they will be found most acceptable.

Varieties marked * are wrinkled Marrows, and should be sown more thickly than the round Peas, and not until the ground has become warm, as they are more liable to rot. All wrinkled sorts are much superior in flavor to the round Peas.

EARLY SMOOTH-SEEDED SORTS

ALASKA. A round, slightly pitted, blue-seeded sort, grown largely by canners. An extremely early variety. Height 24 inches. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. \$1.60, bus. \$11.50.

EARLY BIRD. A Pea which combines the hardiness of the round-seeded types with the quality of the later wrinkled Marrowfats. The plant grows 4 to $4\frac{1}{2}$ feet high, and therefore requires the support of brush, wire, or strings. Throughout its height it bears profusely 4-inch pods closely packed with Peas of fine flavor. Early Bird is a few days earlier than Gradus when sown at the same time, but you may safely plant it ten days ahead of Gradus. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, bus. \$20.

EARLIEST WRINKLED SORTS

***GRADUS, or PROSPERITY.** Undoubtedly one of the most valuable sorts introduced up to the present time. The vine has heavy stems, with large, light green leaves and grows about 3 feet high. It produces uniformly large pods, measuring from 4 to $4\frac{1}{2}$ inches in length, nearly round and well filled with very large, handsome Peas of the finest flavor; very early, ready for picking after First of All is through, and leaves little to be desired. Height 3 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$11.50.

***LAXTONIAN.** A very fine dwarf early Pea. Unusually large pods, borne on long-growing, sturdy vines. Unlike many of its class, the large pods are filled with large, luscious Peas. It is ready for use about a week later than the very early sorts. The plants grow about $4\frac{1}{2}$ feet high, and are of a rich dark green color, which proves it to be of vigorous constitution, and this enables it to resist the extreme conditions to which Peas are subjected in many sections of the United States. (See photograph.) Pkt. 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. 55 cts., 2 lbs. \$1.05, 5 lbs. \$2.60, bus. \$14.50.

***LITTLE MARVEL.** A first-early Pea of the finest quality, better than American Wonder or Nott's Excelsior. The vines of dwarf, even growth, average 18 inches high, and are heavily set with fine pods, usually in pairs. The pods average $3\frac{1}{2}$ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. The Peas are ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. Begins to bear just as Gradus is at its best. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$11.50.

***AMERICAN WONDER.** A very early wrinkled Pea that will bear about the same time as Little Marvel, but is not so large or prolific. Height 1 foot. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$11.50.

MIDSEASON AND MAIN-CROP SORTS

***ALDERMAN.** A distinctly different Pea in habit from those described in the Early list. On generous soils it grows to a height of 5 to 6 feet, and should be supported with brush or trellises. The pods contain seven large, elongated, dark green Peas of the highest quality. Height 5 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, bus. \$12.

BUTTERCUP. A splendid early main Pea of English origin. Height 2 ft. Remarkable for its delicious flavor. Pkt. 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.35, bus. \$14.

***BOSTON UNRIVALLED, or TELEPHONE.** This variety is much like Alderman, with vines fully as tall, pods slightly smaller, and bears right up to the season of the very late sorts. The yield of pods is not so great and they are not so well filled as Alderman. The Peas are every bit as tender, but darker green in color and sweet. Height 5 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. \$2.10, bus. \$12.

***POTLACH.** Really an improved Stratagem and, without a doubt, the best dwarf, extremely late Pea. Height 2 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 40c., 2 lbs. 75 cts., 5 lbs. \$1.85, bus. \$11.50.

EDIBLE-PODDED SUGAR PEAS

Used in the same manner as wax beans

LUSCIOUS MELTING SUGAR. Large, broad pods, which are so brittle that they snap without any string. Height 5 feet. Pkt. 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. 55 cts., 2 lbs. \$1.05, 5 lbs. \$2.60.

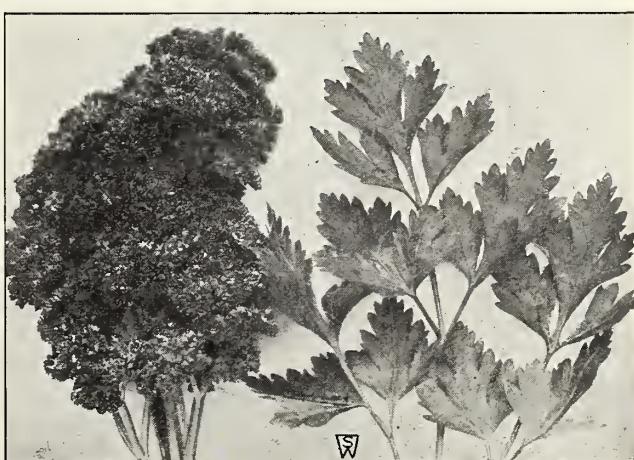
PARSLEY

One ounce will sow about
150 feet of drill

CULTURE.—Parsley requires a rich, mellow and deep soil. Sow early in the spring in drills 1 foot apart and $\frac{1}{2}$ inch deep. Thin out the young plants to 4 inches.

CHAMPION MOSS CURLLED. A bed of this has the appearance of fine moss. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

PLAIN. Known widely as Italian Parsley. Used for flavoring. (See illustration.) Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



Champion Moss Curled and Plain Parsley compared



Perfection
Pimiento

W

PEPPERS

One ounce will produce about 1,000 plants

CULTURE.—Peppers are more sensitive to frost than most vegetables, and they should not be planted out until settled warm weather has arrived. The seed should be sown in a hotbed, coldframe, or if no better convenience is available, a box in a window; transplant later into rows 20 inches apart each way, and keep the soil clean and well stirred.

PERFECTION PIMENTO. One of the best for the home-garden, both green and ripe. It is so smooth and uniform in shape that the skins can be easily slipped off after heating over a hot fire a few seconds or by boiling a few minutes in hot water. It can also be pared like an apple by using a sharp knife. The green Peppers can be pared best in this way. The hull or meat is from 2 to 3 times as thick as that of the Bell types, and yields about a half more edible product to the same measurement. The quality is very sweet and delicious and entirely free from pungency. In color, when ripe, it is a beautiful scarlet-red. It is very productive, yielding heavy crops until cut off by frost. This Pepper will be much sought and grown by canners for pimientos, pickles and pulp. Pkt. 15 cts., $\frac{1}{2}$ oz. 45 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.75.

RUBY KING. The handsome fruits are $4\frac{1}{2}$ to 6 inches long, 4 inches thick, and bright red. Ruby King is used very largely for pickles, and it is equally suited for slicing. The flavor of the fruits is mild and pleasant, with just a slight suspicion of piquancy, making them very tempting when served like cucumbers or tomatoes. Pkt. 15 cts., $\frac{1}{2}$ oz. 45 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.75.

LARGE BELL, or BULL NOSE. A large, early variety of pleasant flavor, though mild. This is the variety for green stuffed Peppers. Ripens into a bright red. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 70 cts., $\frac{1}{4}$ lb. \$2.50.

LONG RED CAYENNE. Fruits about 4 inches long and 1 inch thick, bright red in color; very prolific; very hot. Used for pickling, both when green and when ripe. Pkt. 15c., $\frac{1}{2}$ oz. 45c., oz. 75c., $\frac{1}{4}$ lb. \$2.75.

POTATOES FOR SEED

CULTURE.—Any good, well-drained, fibrous loam will produce Potatoes under right climatic conditions. For early Potatoes, which mature in eight to ten weeks from planting, the soil must be particularly rich. A rich clover sod, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in best shape for giving a good yield of nice, clean Potatoes. Stable manure had better be applied to the land the year before. S & W. Co.'s Potato Manure, at the rate of up to 1,000 pounds to the acre if applied broadcast, or 400 to 600 pounds if applied mostly in the rows, may be used directly for the Potato crop. Open furrows 3 feet apart and 3 to 4 inches deep. Apply the fertilizer and run the furrower or small plow again in the furrow to mix the fertilizer with the soil and leave a mellow seed-bed. Then plant good-sized pieces, each containing not less than two or three eyes, 15 inches apart in the furrows for early Potatoes, and 18 inches apart for late ones. Return the soil with a coverer, small plow or other suitable tool.

IRISH COBBLER. A variety that is more largely used as an early variety than any other. The flesh is white and of fine quality. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.

EARLY ROSE. (Selected.) A variety which has been grown extensively in some sections. A Potato of good size and fine quality. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.



Green Mountain Potatoes

GREEN MOUNTAIN. (Selected Stock.) A late, heavy cropper of excellent quality; skin smooth and white; shape roundish flat; eyes few and shallow; a good keeper. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.



Large Cheese Pumpkin

PUMPKINS

One ounce will plant 50 hills

CULTURE.—Plant in April or May, among corn, or in the garden, in hills 8 to 10 feet apart, and otherwise treat in the same manner as melons.

LARGE CHEESE. A most popular variety. Fruit flattened, the diameter being two or three times more than the length; skin mottled light green and yellow, changing to rich cream-color as it matures; flesh tender and of excellent quality. Pkt. 10 cts., oz. 20cts., $\frac{1}{4}$ lb. 55cts., lb. \$1.75.

SWEET, or SUGAR (New England Pie). The fruits are medium to small in size, of a bright orange color, and in shape are round, flattened at the ends. The flesh is of remarkably good cooking quality, very thick, and deep yellow in color. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.

KING OF THE MAMMOTHS. Recommended where size is the chief consideration—200 pounds or more being not an unusual weight for a single specimen. The fruit is flat-round; the skin is yellow, as also is the thick flesh. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.75.

WINTER LUXURY. This we recommend as one of the best pie Pumpkins; an excellent keeper and enormously productive. It is very finely netted and in color it is a golden russet. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

RADISH

One ounce will sow about
100 feet of drill

As early in the spring as the soil can be worked, sow any of the early round or olive-shaped varieties in rows, $\frac{1}{2}$ inch deep, with a foot to 18 inches between the rows. Sow thinly. If seedlings appear closer than 1 inch apart, they should be "thinned out." Hoe frequently to encourage rapid growth which insures high quality. The early spring sorts serve the purpose until June 15, when Icicle and Cincinnati Market are at their best. The summer sorts are good until frost from repeated planting. The winter varieties should be pulled after light frosts and stored like beets. Both summer and winter Radishes should be "thinned" to stand from 4 to 6 inches apart in the row. After the middle of May, do not sow the flat, round, and olive-shaped spring sorts. Sow White Icicle, Cincinnati Market, and Chartier. These resist hot weather well. About July 1, sow the winter varieties.

EARLY SCARLET TURNIP. Within 25 days from date of sowing it perfects handsome, flat roots, $\frac{3}{4}$ inch in diameter by $\frac{1}{2}$ inch deep through. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

SPARKLER. Of rich carmine-scarlet color, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp and sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground. While the leaves are small, they are sufficiently large for bunching. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

EARLY SCARLET GLOBE. The best general-purpose variety in this class, perfecting handsome roots, as illustrated alongside, in from 28 to 35 days after sowing. Of distinct shape, brilliant color, short-leaved, crisp and white; an excellent variety for forcing. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

FRENCH BREAKFAST. The olive-shaped counterpart of Cooper's Sparkler among the early round sorts, as described above. A favorite sort; mild and crisp. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

WHITE ICICLE. The "best all-round" Radish for all purposes in the home-garden; also fine for market and splendid for growing under glass. Within 30 days from sowing seeds, the roots attain a length of 4 to 5 inches, by $\frac{3}{4}$ inch in diameter at the thickest part. The skin is thin, the flesh crisp and mild. It remains in fine table condition longer than any other early sort, regardless of shape. (See illustration.) Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

LONG SCARLET CHARTIER, or SHEPHERD. This might be considered "the connecting link" between the foregoing sorts and the very much later kinds that follow. Long Scarlet Chartier is ready in about 45 days after sowing. The color at the top is crimson, running into pink about the middle, and from thence downward is a pure white. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.75.

CALIFORNIA MAMMOTH WHITE WINTER. A white-fleshed Radish of excellent quality. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

LONG BLACK SPANISH. The popular winter sort. Pkt. 10c., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

RHUBARB SEED

One ounce will produce about 1,000 plants

CULTURE.—Sow early in spring, in drills 1 inch deep and a foot apart; thin out; transplant the following season 4 feet apart each way.

VICTORIA. Very large, of the finest quality. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

RHUBARB ROOTS

The roots we offer are of the Giant Crimson Winter variety. They may be planted in any good garden soil in the early spring. Divided roots, 15 cts. each, \$1.50 per doz., \$10 per 100; extra-strong clumps, 25 cts. each, \$2.50 per doz., \$20 per 100.

SCORZONERA

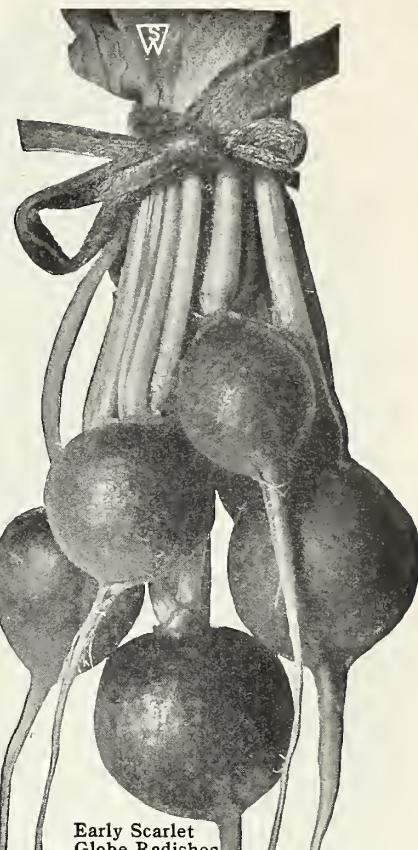
Black Salsify

One ounce will sow about 50 feet of drill

CULTURE.—Cultivate the same as salsify. The roots should not be scraped, but simply washed, boiled tender, then peeled and served like asparagus.

IMPROVED. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$5.

White Icicle Radishes



Early Scarlet
Globe Radishes



Victoria Rhubarb



New York Market Spinach

S. & W. CO.'S SAVOY-LEAVED. A variety highly valued alike by market-growers and home-gardeners. The leaves are wrinkled and crumpled, resembling, to an extent, the Savoy cabbage. The variety is profitable on account of the heavy yield of produce, and it is particularly hardy. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

VICTORIA LONG-STANDING. A variety suitable alike for spring and fall seeding. It is of low, compact habit; leaves shining dark green and heavily crumpled, forming a dense, flat rosette with very short petioles. Victoria is a great favorite with the market grower on account of the slowness with which it shoots to seed. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 75 cts.

NEW ZEALAND SPINACH (*Tetragonia expansa*)

A half-hardy annual cultivated for its young leaves which form an excellent substitute for Spinach. The plants grow very vigorously, do not run to seed, and withstand drought much better than Spinach. New Zealand Spinach should therefore find a place in every garden, to furnish a summer supply of green boiled vegetables. It is recommended for use, also, on soils too poor to carry Spinach of the true type, as it grows naturally on dry upland situations.

CULTURE.—Sow during May, in drills which should be at least 2 feet apart, as the plants spread rapidly. Thin to 9 inches between the plants in the row. Keep the surrounding soil well stirred and pinch off the young leaves and shoots freely as required, when others will be produced quickly in their place right through the summer. One seeding will suffice for a whole season, as the plants produce continuously until frost.

IMPORTED SEED of high vitality and best quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

SWISS CHARD Spinach Beet

One ounce will sow about 100 feet of drill

The plants are cultivated for the leaves which are used for "greens," the same as spinach or beet-tops; they are equal in quality and easier to prepare than spinach, and far superior to beets. Sow as early in spring as the ground can be worked, in rows 12 inches apart, and thin out to 5 inches apart in the rows. As it grows, thin out for use. It can be used all summer when spinach is not available.

GIANT LUCULLUS. Plants of this variety grow to a height of 2 to 2½ feet. The stalks are quite thick, 1½ inches broad, heavily ribbed and from 10 to 12 inches long below the leaf. The extra-large leaves are sharply pointed at the top, while in texture they are heavily crumpled. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks, served as separate vegetables, afford two distinct dishes from the same plant at one time. Pkt. 10c., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

GREEN LYON. A vigorous-growing, stocky type with smooth, deep green leaves and broad, thick stalks. A very popular variety. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

SALSIFY (Vegetable Oyster)

One ounce will sow about 50 feet of drill

CULTURE.—Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground until spring.

MAMMOTH SANDWICH ISLAND. Tender and delicious. Superior to all other sorts. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.

SPINACH

One ounce will sow about 100 feet of drill

CULTURE.—Sow in March or April in drills an inch deep and 14 inches apart; again in August or September. Spinach delights in very rich soil—in fact, it is of no use sowing in a poor one.

S. & W. CO.'S NEW YORK MARKET. (Long Island grown.) This Spinach grows rapidly and produces unusually large, thick, crumpled leaves of beautiful green. Properly cultivated and manured, the plants very often measure 2 feet across, and stand the winter better than any other sort of Spinach. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



Mammoth Sandwich Island Salsify



Giant Lucullus.
A tall Swiss Chard with
deeply wrinkled and
crumpled leaves

TOMATO

One ounce will produce
about 1,000 plants

CULTURE.—The seed should be sown in a hotbed about the first week in March, in drills 5 inches apart and half an inch deep. When the plants are about 2 inches high, they should be transplanted into another hotbed and planted 4 inches apart, or planted in 4-inch pots, allowing a single plant to a pot. About the 15th of May the plants may be set out in the open ground 3 feet apart. Water freely at the time of transplanting. Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower-pot, and placing it in a sunny window of the room or kitchen. The fruit is greatly improved in quality if the vines are tied to a trellis or to stakes.

CHALK'S EARLY JEWEL. About a week later than Earliana. It is of uniformly large size; of brightest red, deep fruited and solid. Bears splendid, large-sized Tomatoes throughout the season, and for quantity and quality of fruit it is easily without a rival among the best extra-earlies. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$5.

JOHN BAER. An early, bright red Tomato of wonderful quality. But little later than Earliana, it far surpasses that variety in size and quality; it is, further, one of the heaviest-yielding sorts we know. The flesh is solid, possessing a fine flavor, free from acid. The fruits contain remarkably few seeds, and in this connection it is interesting to note that for seed purposes we find it requires over seven bushels of hand-selected, perfect fruits to produce one pound of seed. This fact was somewhat of a surprise to us when harvesting our 1920 crop, and our supplies of this variety are *short*. The limited quantity which we have to offer is of a private stock and has been grown under our personal supervision. Pkt. 15 cts., $\frac{1}{2}$ oz. 65 cts., oz. \$1.25, $\frac{1}{4}$ lb. \$4.50, lb. \$15.

MATCHLESS. The color is rich cardinal-red. The skin is so tough that it is a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or for table. The plant is a strong grower, and is very productive, bearing with undiminished vigor until frost. The fruit is free from core, and the seed-spaces are comparatively small. In flavor among the best. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50c., $\frac{1}{4}$ lb. \$1.75, lb. \$6.50.

SELECTED STONE. By far one of the best of the main-crop red Tomatoes. It is smooth with very little core, and is not equaled by any other main-crop sort in its large yield of uniform-sized Tomatoes. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.30, lb. \$4.50.

DWARF STONE. The fruits are produced in clusters of three to five, and, as the growth is close-jointed, each plant produces a large number. The Tomatoes average 4 inches in diameter and $2\frac{1}{2}$ inches in depth. Its dwarf, compact habit suggests its use to all amateurs. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.50.

BONNY BEST. Considered among the best of the early sorts. The fruits are bright red in color, of medium size, and are produced in large quantities. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$5.

MONTEREY. Few Tomatoes equal this one in size and, while slightly ribbed, it is very solid and luscious for the family garden. The fruit is deep purple, oblong in form, generally ridged or ribbed with small seed-cells and frequently weighs one pound. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.75, lb. \$10.

THE BEST YELLOW TOMATO

GOLDEN MONTEREY. The best large golden yellow Tomato. Smooth in appearance, of excellent quality, enormous size and ripens early. In shape very much like the Scarlet Ponderosa, but of a bright yellow color. Golden Ponderosa, served sliced and accompanied by a high-class scarlet variety, similarly sliced, presents an appetizing combination difficult to resist. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.50, lb. \$8.50.



Chalk's Early Jewel Tomato

SMALL-FRUUITING TOMATOES

The fruits of these are largely used for making fancy pickles, preserves, etc., while their size, shape, color, and flavor make them desirable additions to salads. The plants are extremely productive.

Yellow Cherry	Red Pear-shaped	Red Plum
Red Cherry	Yellow Pear	Yellow Plum
Red Currant	Peach	

Above eight varieties: Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75

SQUASH

One ounce of Early Squash
will plant about 25 hills

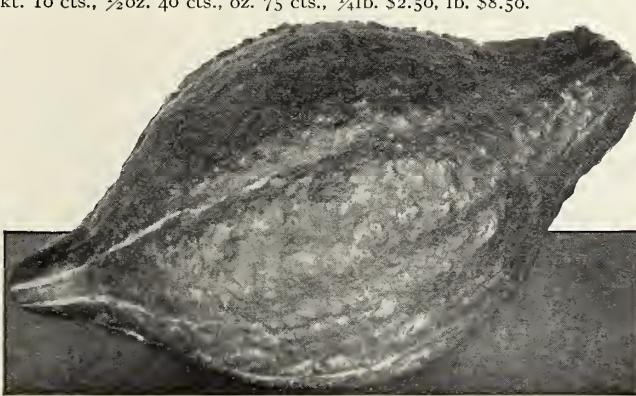
CULTURE.—The Squash succeeds best in good rich soil. It is not advisable to plant before May 15. Sow in hills in the same manner as cucumbers and melons.

LONG ISLAND WHITE BUSH. A selection of the old White Bush Scalloped, and a vast improvement upon it, having less prominent ridges and being much deeper, so that a single Squash actually contains nearly twice as much weight for the same cubic measurement as the old sort. In addition to this, it is of finer quality and very prolific. We can strongly recommend this variety. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

GIANT BUSH SUMMER CROOKNECK. The Crookneck class of Squash surpasses in quality any of the summer varieties, and in the Giant Bush we have the delicious buttery flavor of the original sort, but of just double the size. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

HUBBARD. Bluish green color, occasionally marked with brownish orange. Will keep from September to May. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 80 cts., lb. \$2.50.

BOSTON MARROW. A very popular Squash for fall or winter use. Bright orange color, flesh yellow; oval in form. A splendid keeper and excellent for pies. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



Hubbard Squash

TURNIP

One ounce will sow about
150 feet of drill

CULTURE.—For early Turnips, sow as soon as the ground opens in spring. Rutabagas should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre; broadcast, two to three pounds to the acre.

EARLY WHITE MILAN. As early as the Early Purple-Top Milan and possessing all of its good qualities. The entire "bulb," inside and out, is clear ivory-white in color; the outer surface is perfectly smooth. It grows so quickly that even the outer surface of the "bulb" is quite tender. Its table qualities are unequalled, being of the most delicate flavor and tempting appearance. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

PURPLE-TOP WHITE GLOBE. This variety may be grown to quite a large size, without developing signs of coarseness. It is of spherical shape, the skin white with the upper one-third colored reddish purple. The flesh is pure white, firm, fine-grained, and of superior flavor. A handsome looking bulb, rapidly taking the lead of all other varieties of early Turnips for market and home-gardening purposes. It is one of the best sorts to store for winter, and, in addition to its fine table qualities, it is excellent and economical for stock-feeding. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

SNOWBALL. An excellent first-early, globe-shaped root; smooth, clean, and free from all coarseness. A variety that is recommended particularly to the home-gardener on account of its splendid table qualities. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

RED-TOP STRAP-LEAF. A very popular type, maturing in about two months from sowing. The roots are flat, marked with reddish purple on the upper portion; the flesh is pure white and of fine quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

GOLDEN BALL, or ORANGE JELLY. This is the most distinct yellow Turnip we know. The flesh is of a very fine texture, making it one of the best table varieties. Its beautiful color and fine flesh have earned for it the synonym of "Orange Jelly," which well describes its appearance when ready for the table. The bulb is of medium size, with small tap-root, and is early in maturing. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

MANGEL-WURZEL

CULTURE.—Sow in drills during May or June, about 2 feet apart; thin out to 9 to 12 inches in the rows. Six to 8 pounds are required for one acre.

MAMMOTH LONG RED. The roots are of enormous size, very regular and clean, with but small top-growth. The skin is bright, rich red, and the roots, which frequently exceed 2 feet in length, grow from one-half to two-thirds above the ground. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 85 cts., 10 lbs. \$8.

GOLDEN TANKARD. Smooth, yellow flesh; small, yellow-stemmed top; length 11 inches, diameter 4 inches, shape cylindrical. Usually grows half out of the ground. Easily pulled, good yielder; very hardy and nutritious. Oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.



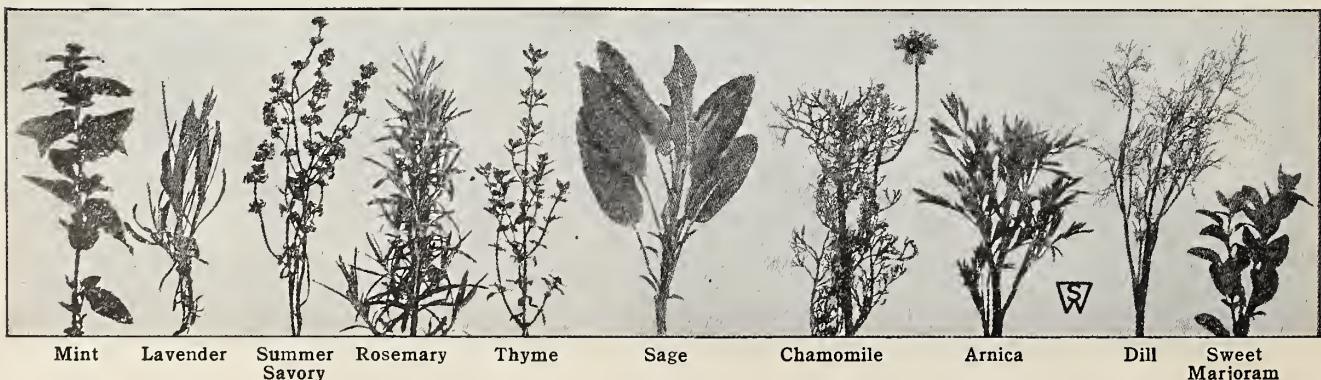
Purple-Top White Globe Turnip

RUTABAGA (Russian or Swedish Turnip)

S. & W. CO.'S LONG ISLAND IMPROVED. This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Aromatic, Medicinal and Pot Herbs

	Pkt.	Oz.	Pkt.	Oz.	
Arnica (<i>Arnica montana</i>). Valuable medicinal qualities.....	\$0 20		Marjoram (<i>Origanum Majorana</i>). Sweet. Used in seasoning.....	\$0 15	\$0 50
Chamomile (<i>Matricaria chamomile</i>). The dried flowers possess medicinal qualities. Prescribed as an emetic and vermifuge.....	25		Rosemary (<i>Rosmarinus officinalis</i>). Yields an aromatic oil and water.....	15	50
Dill (<i>Anethum graveolens</i>). Seed used for flavoring vinegar.....	10	\$0 20	Sage (<i>Salvia officinalis</i>). Common. A culinary herb; also used in medicine.....	15	50
Lavender (<i>Lavandula vera</i>). True. For oil and distilled water.....	15	75	Savory (<i>Satureja hortensis</i>). Summer. Used as a culinary herb.....	15	40
			Thyme (<i>Thymus vulgaris</i>). Broad-leaved English. Used as a seasoning.....	15	50





A Field of S. & W. Co.'s New Golden Eureka Yellow Dent Corn (Improved Leaming), showing vigorous growth

S. & W. CO.'S SELECTED STRAIN OF FIELD CORN

The various Field Corns offered on this page are grown for us and have had our personal inspection. Every effort has been made to have stocks well bred and selected. **Prices subject to change without notice.**

New Golden Eureka Dent Corn (IMPROVED LEAMING)

This magnificent Field Corn is a decided improvement on the popular variety, Eureka, being fully ten days earlier. It is a tremendous yielder. We have had reports of yields of over 150 bushels of shelled Corn to the acre. The plants grow from 12 to 15 feet high, a great proportion of them bearing two ears to the stalk, the ears averaging 12 to 15 inches long, with 18 to 22 rows of deep rich yellow grains and small cob. Seventy pounds of ears frequently yield 60 pounds of shelled Corn. While not so quick to mature as a Flint Corn, where 100 days of "Corn weather" are assured, it is the best Corn to grow. A very fine variety for ensilage, and frequently produces 25 tons of good Corn silage per acre. Qt. 30 cts., postpaid 40 cts.; pk. \$1.75, bus. \$6, 10-bus. lots, \$5.50 per bus.

Jumbo Silage Corn

A first-class ensilage variety. Grows 12 to 15 feet high, with mammoth stems in proportion, and an enormous growth of leaves. Under favorable conditions it will produce ears a foot or more long, yielding two of them to a plant. Jumbo Silage Corn is recommended for rich, low lands, when an enormous bulk of fodder may be expected. Qt. 30c., postpaid 40c.; pk. \$1.60, bus. \$5.50, 10-bus. lots, \$5 per bus.

SOY BEANS

Especially valuable for mixing with corn for silage, for the production of hay, and for use as pasture, especially for hogs. The growth is erect, and they are therefore easily harvested. They are also valuable as a crop for plowing under for green manure, to add humus and nitrogen to the soil. They can also be planted with cowpeas, and on account of their erect growth they support the vines of the cowpeas.

Mammoth Yellow Soy Beans. Qt. 25 cts., postpaid 45 cts.; pk. \$1.50, bus. \$4.50, 10 bus. \$42.50.

COWPEAS

Used for improvement of soils by plowing under; also makes valuable hay, when sown alone or with soy beans, during May, June or July, at the rate of two bushels to acre or one bushel of soy beans and one of Cowpeas, broadcast or in a wheat drill.

Whippoorwill. An early, bunch-growing Pea; has brown-speckled seed. Qt. 35 cts., postpaid 50 cts.; pk. \$2, bus. \$6, 10 bus. \$55.

New Era. Not quite so large as Whippoorwill, but earlier. Qt. 35 cts., postpaid 50 cts.; pk. \$2, bus. \$6, 10 bus. \$55.

Early Smoky Dent

The earliest Dent Corn in cultivation. Many growers claim that it has every variety of Corn surpassed for early maturity, large size of ears and splendid quality; ears are 8 to 10 inches long and have 12 to 16 rows of kernels on the cob. Stalks average, on good ground, 8 feet or more, and it matures generally in about 80 days from date of planting. It is thus a splendid dual-purpose Corn, valuable both for crib and silo purposes. Qt. 30 cts., postpaid 40 cts.; pk. \$1.75, bus. \$6, 10-bus. lots, \$5.50 per bus.

Evergreen Fodder

A variety of the Sweet Corn especially valuable as green fodder. Sow broadcast, 2 bushels to the acre; in drills 3 feet apart, one bushel per acre. Qt. 25 cts., postpaid 40 cts.; pk. \$1.50, bus. \$5, 10-bus. lots, \$4.50 per bus.

Improved Early Horsetooth

Same as Southern Horsetooth, but better selected and earlier. Small stalks; large quantity of foliage. Qt. 35 cts., postpaid 45 cts.; pk. \$1.75, bus. \$6, 10-bus. lots, \$5.50 per bus.

CANADA FIELD PEAS

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions of dollars."—Yearbook of the U. S. Department of Agriculture.

Peas are a paying crop and can be profitably planted in many ways. Qt. 30 cts., postpaid 40 cts.; pk. \$1.75, bus. \$5.25, 10 bus. \$50. On orders of 100 bus. or over, prices on application.

When sown alone about three bushels are required to the acre.

 PRICES ON GRASS AND CLOVER SEED ARE SUBJECT TO CHANGE



Medium Red Clover

Medium Red Clover

Trifolium pratense

This is regarded as the most valuable of the Clover family. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay or plowed under to add fertility to the soil. It may be sown either in the spring or fall, and if no other grasses are used, at the rate of from ten to fifteen pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. It pays always to buy the best grade of Clover seed which can be obtained. Lb. 50 cts., 10 lbs. \$4.75, 100 lbs. \$42.50.

White Bokhara, or Sweet Clover

Melilotus alba

Farmers are sowing this Clover to quite a considerable extent on light, sandy land, where other Clovers do not take well. They hope, by sowing this Bokhara Clover, to get a good growth to turn under to improve the land and also to inoculate the soil so that it will produce good crops of Crimson Clover and Alfalfa from seedlings of these to follow the Bokhara. For feed or forage it should be cut when quite young, for when it gets old, cattle do not relish it, and it is not of very high nutritive value. It is also largely used for sowing for bees. Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$22.50.

Hungarian Millet

For good low grounds on rich soil, this makes even a more valuable crop than German Millet. Sow from the first of May to the end of July at the rate of 1 bushel per acre. Bushel weighs 48 pounds. Lb. 15 cts., 10 lbs. \$1.10, 100 lbs. \$9.



Grimm Alfalfa

Common Alfalfa

The Grimm in comparison with common Alfalfa. This photograph was furnished by Prof. Philo K. Blinn, Alfalfa Specialist of the Experiment Station at Fort Collins, Colorado, showing typical Alfalfa plants grown under exactly the same conditions.

Natural Grasses

	Lb.	100 lbs.	Lb.	100 lbs.	
Bermuda Grass. Fine quality.....	\$0 75	\$65 00	Pacey's English Perennial Rye Grass.....	\$0 30	\$25 00
Carpet Grass.....	85	75 00	Red Fescue, Chewing's N. Z.....	55	45 00
South German Bent, Genuine Imported. Fine. I	50	100 00	Red Top, Fancy Recleaned.....	35	27 50
Italian Rye Grass.....	30	22 50	Rough Stalked Meadow Grass.....	75	65 00
Kentucky Blue Grass, Fine Recleaned.....	55	42 50	Sudan Grass.....	20	15 00
Orchard Grass.....	45	35 00	Timothy.....	20	15 00

Special quotations furnished on quantity lots

How to Make A Lawn



THE production of a good lawn is not at all difficult. The method is as follows: (1) Dig the soil about 6 inches deep, but only when it is dry; if rain has fallen recently allow a few days of fine weather to elapse before commencing work. (2) As you dig, lift each clod high enough to enable you to turn it completely over. (3) Strike the inverted clod with the back of the fork to break it. (4) As the work proceeds, remove all stones, sticks, and rubbish. (5) Scatter **Stumpf & Walter Co.'s Emerald Grass Fertilizer** on the dug earth; use 1 ton per acre or 1 pound to each 25 square feet. (6) Draw a rake back and forth until the soil is smooth and in fine condition. (7) Sow **Staigreen Lawn Seed** at the minimum rate of 100 pounds per acre (4 bushels) or 1 pound (nearly 2 quarts) to each 400 square feet. Double the quantity when turf is needed quickly. Select a day when no wind is blowing; divide the seed into two portions and sow the land twice to insure its even covering; it is important to stir the contents of the bag now and again. When you have sown the seed, rake the land once more, but very lightly. Do not work the rake back and forth—merely draw it toward you in a series of light strokes, raking only once in the same place. The idea is to bury most of the grass seeds no more than $\frac{1}{8}$ inch deep. (8) Roll the seeded area, but should rain fall before the work is completed, defer the rolling until the land has dried.

How long will the Lawn be growing? This varies with the time of year, quality of soil, rainfall, etc. Under very favorable conditions the young seedlings show through in less than ten days and the whole area looks green in a further two weeks; wait four weeks more before walking on the grass except to mow and roll it.

When is the best time to make a Lawn? Early spring and late summer are the best, but seed will usually grow quite well if sown at any time of the year.

Will the above directions hold on poor or sandy land? Before commencing work on poor soil, spread rotted horse-manure or cow-manure over the land at the rate of 20 tons to the acre or 1 pound per square foot. Then proceed exactly as directed. If manure cannot be procured, use Pulverized Sheep Manure at the rate of 2 tons to the acre or 1 pound to each 10 square feet. Do not attempt to grow a lawn on excavated soil, subsoil, or "fill" without first applying manure, digging, then adding at least an inch of top-soil, two or three if possible. Apply Emerald Grass Fertilizer, and proceed as suggested.

How about moist, sour soil? Spread hydrated lime at the rate of 2 tons per acre or 1 pound to each 10 square feet; then follow directions. In bad cases it will be necessary first to drain the land by digging ditches or laying tile.

Should I sprinkle the new Lawn with water? Best not for the first three weeks, as it is likely to do more harm than good. Later, when the grass has started, it should be watered in dry weather: use an approved type of sprinkler and soak thoroughly every three days.

EMERALD GRASS FERTILIZER. 5 lbs. 45 cts., 10 lbs. 80 cts., 25 lbs. \$1.75, 50 lbs. \$3, 100 lbs. \$5.50, 500 lbs. \$22, ton \$75.

PULVERIZED SHEEP MANURE. 5 lbs. 40 cts., 10 lbs. 60 cts., 25 lbs. \$1.25, 50 lbs. \$2, 100 lbs. \$3.25, 500 lbs. \$15, ton \$50.

What after-care is needed? As soon as the young grass is 2 inches high, begin cutting it and keep it regularly mown; roll it at least once a week, and water during dry weather.

How about Weeds? Stumpf & Walter Co.'s seeds are as free from weeds as care and modern machinery can make them. All soils, however, contain seeds of weeds—some more than others—and many of these start to grow along with the grass. Close cutting will kill most, but the few that remain must be taken out, and the holes filled with good soil in which you have mixed some grass seeds.

How about White Clover? We include Clover only in our lowest-priced mixture, which we call "High Grade Lawn Seed," because Clover is generally omitted nowadays in the finest lawns. For the convenience of our customers who wish it, we offer **Superfine White Clover**. Oz. 10c., $\frac{1}{4}$ lb. 30c., 1 lb. 85c., 5 lbs. \$4, bus. (60 lbs.) \$39, 100 lbs. \$65. Mixed with grass seeds, the usual allowance is 5 per cent.

Is "Staigreen" the best seed to use? No seeds are purer and no seeds grow more vigorously than the grass seeds in Staigreen, which is a mixture of five distinct varieties, and for the finest lawns around the residence Staigreen cannot be surpassed. For shade and special conditions use the mixtures described on the preceding pages. **Staigreen Lawn Mixture**, Lb. 60 cts., $\frac{1}{2}$ lb. \$1.40, 5 lbs. \$2.75, $12\frac{1}{2}$ lbs. \$6.25, 25 lbs. \$12, 100 lbs. \$47.50.



HOW ABOUT YOUR LAWN?



Staigreen LAWN SEED BEST ON EARTH

25-Pound *versus* 14-Pound LAWN SEED

Many low-priced Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either a good proportion of chaff or some of the real good varieties in the rough state, not properly cleaned so as to leave only the vital part and less of the chaff or shell—in other words, so many less seeds to the quart or pound that will germinate and grow real grass.

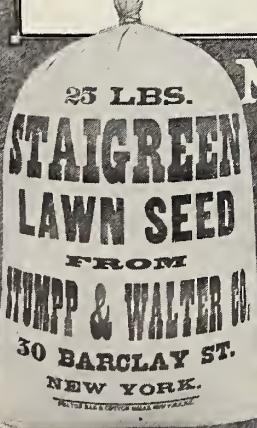
Why Not Buy the Recleaned Kind?

A mixture of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow.

Humpf & Walter Co.

One Pound will sow a
Plot 20 x 20 feet
Sow 80 Pounds to the
Acre

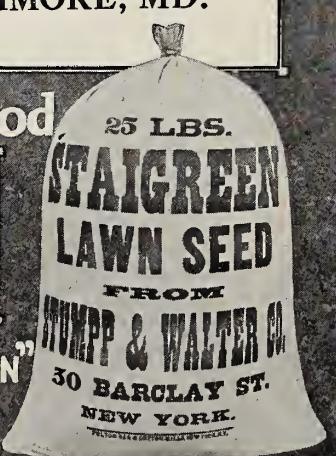
204-206 North Eutaw St.
BALTIMORE, MD.



Not How Cheap, But How Good

DELIVERED ANYWHERE IN UNITED STATES					
Lb.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.
60 cts.	\$1.40	\$2.75	\$6.25	\$12	\$47.50
WHEN CASH ACCOMPANIES THE ORDER					

"HOW TO BUILD A PERMANENT LAWN"
PAMPHLET FREE IN EVERY BAG



SHADY PLACE LAWN SEED



S. & W. Co.'s Shady Place Lawn Grass

By using the correct seed varieties it is generally not at all difficult to obtain a good turf under trees. In particularly stubborn cases, where the shade is very dense, it is desirable to add lime every fall, dig lightly every spring, apply Pulverized Sheep Manure, rake and sow Shady Place Lawn Seed. A lawn under trees is the most beautiful of all. S. & W. Co.'s Shady Place Lawn Seed will produce it. Use as a minimum allowance one quart for each 15 by 15 feet or 4 bushels per acre; sow at half these rates when renovating a lawn.

Qt. 50 cts., 4 qts. \$1.65, 8 qts. \$3, bus. \$10, 10 bus. \$97.50. Charges prepaid when cash accompanies order. Weight 20 lbs. per bushel.

The Best Two Lawn Dressings

For use when preparing land for grass or feeding established turf.

EMERALD GRASS FERTILIZER. 5 lbs. 45 cts., 10 lbs. 80 cts., 25 lbs. \$1.75, 50 lbs. \$3, 100 lbs. \$5.50, 500 lbs. \$20, ton \$75.

PULVERIZED SHEEP MANURE. 5 lbs. 40 cts., 10 lbs. 60 cts., 25 lbs. \$1.25, 50 lbs. \$2, 100 lbs. \$3.25, 500 lbs. \$15, ton \$50.

Apply Emerald Grass Fertilizer, which is a mixture of chemicals, either spring, summer, or early fall; on new land use one ton per acre or one pound to each 25 square feet. Use Pulverized Sheep Manure, in addition, on land which is sandy, poor, and deficient in humus, at the rate of two tons per acre or two pounds to each 25 square feet—you may with safety dig in sheep manure in larger quantities. For nourishing established lawns, one-half the above allowances may be used.

These two fertilizers are sent, charges prepaid, in 100-pound lots or more, when cash accompanies order. Customer pays transportation on less than 100 pounds.

SOUTHERN LAWN SEED

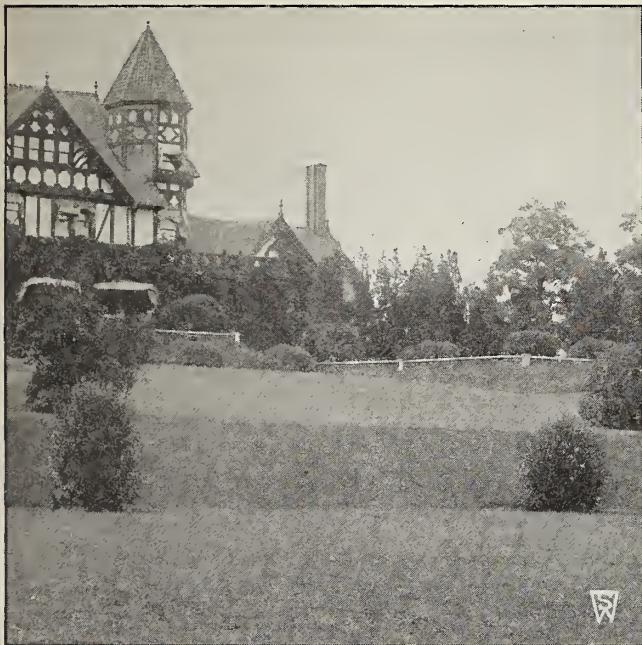
From central Virginia south the ordinary northern grasses will not thrive permanently, and good results are not likely to follow the use of the customary mixtures. As a result of an intimate knowledge of southern conditions we offer a special formula which we find is highly satisfactory. We advise that two seedings be made, one in spring and one in fall, allowing at each seeding one quart to each 15 by 15 feet or 4 bushels to the acre. Give a seeding each subsequent spring and fall of one-third the above proportions.

Qt. 45 cts., 4 qts. \$1.50, 8 qts. \$2.50, bus. \$9.50, 10 bus. \$90. Charges prepaid when cash accompanies order. Weighs 20 pounds per bushel.

"**Golf Turf**" contains pages of detailed information on the difficulties of producing turf under trees; also regarding the growing of grass in the Southern States. It is free, and we suggest that you write for a copy.



S. & W. Co.'s Southern Lawn Grass



Stumpf & Walter Co.'s Terrace Sod Lawn Grass

SEASHORE LAWN SEED

The varieties of which this mixture is compounded are selected for their deep rooting qualities, resistance to salt spray, and high winds. It is recommended for those situations on the ocean front where difficulty has been experienced in getting a lawn with the usual grass seeds. The soil in the neighborhood of the sea is frequently very poor, and a very good preparation for seed is to apply Pulverized Sheep Manure at the rate of $\frac{1}{2}$ to 1 pound per square yard; rake after applying this manure and then sow seed.

One or more quarts of Seashore Lawn Seed should be sown on an area 15 by 15 feet, or four bushels to the acre. **Qt. 40 cts., 4 qts. \$1.25, 8 qts. \$2.25, bus. \$8.50, 10 bus. \$80.** Charges prepaid when cash accompanies order. Weight, 22 pounds per bushel.



"Civic Virtue," the much-discussed statue in City Hall Park, New York City. A good turf resulted in a few weeks from seed sown around the base, fall, 1922.

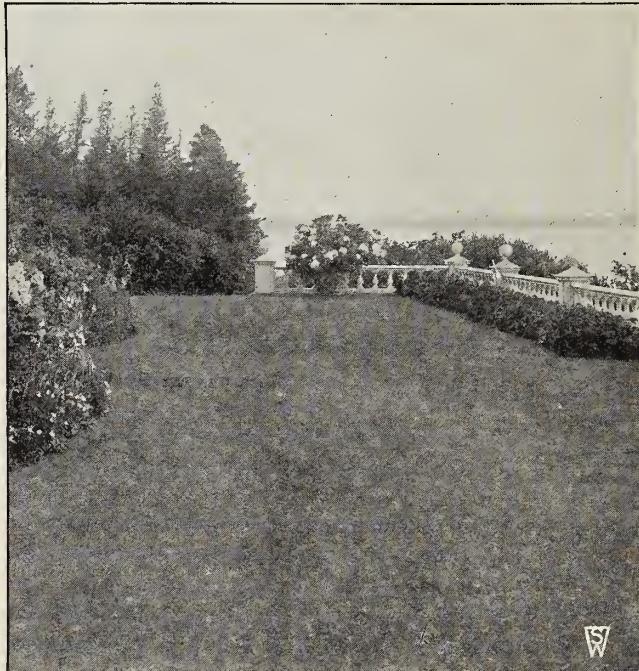
Stumpf & Walter Co.'s **High Grade Lawn Seeds** supplied to the New York Parks Department.

TERRACE SOD LAWN SEED

FOR TERRACES, HILLSIDES AND EMBANKMENTS

To Grass a Bank or Terrace. For each square rod take two quarts of lawn grass seed and mix it thoroughly with 6 cubic feet of good, dry garden loam. Place it in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, and made as even and thin as possible.

A special mixture of grasses best suited for sowing on terraces and side-hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out, that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, green turf throughout the season. **Qt. 50 cts., 4 qts. \$1.75, 8 qts. \$3.25, bus. \$12, 10 bus. \$115.** Charges prepaid when cash accompanies order. Weight, 20 pounds per bushel.



Stumpf & Walter Co.'s Seashore Lawn Grass

HIGH-GRADE LAWN SEED

FOR PARKS AND OTHER LARGE AREAS

Our High Grade Grass Seed is composed of fine, recleaned grasses, care being taken to include varieties of high purity and vitality. They are carefully proportioned so that they will succeed one another and give the lawn that much-desired green, velvety appearance through the summer. One quart will sow 15 by 15 feet or four bushels to the acre; use one-half these quantities for renovating old lawns.

Our best grass seed mixture is "Staigreen," which will produce the finest possible turf. Our second quality mixture is "High Grade," and we advise its use on large areas or on lawns when low cost of materials is more important than extreme fineness of turf. **Qt. 40 cts., 4 qts. \$1.25, 8 qts. \$2.25, bus. \$7.50, 10 bus. \$70.** Charges prepaid when cash accompanies order. Weight, 22 pounds per bushel.

White Dutch Clover

The best variety for lawns, as it forms a close herbage and remains green throughout the season. **Lb. 85 cts., 5 lbs. \$4, 100 lbs. \$65.**



ANNUAL FLOWER SEEDS

In presenting this list of **Flower Seeds** for your attention, every care has been taken to secure **seeds** from sources of supply known to us, and from our experiences and from our tests at our **trial grounds**, to be of the highest possible merit. Our Flower Seeds are selected with an idea of superiority of strain and we handle only the highest possible types in each respective class.

We mail all Flower Seeds FREE OF COST to any post office in the United States

AGERATUM (Floss Flower)

One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May.

Blue Perfection. Large heads of deep blue flowers produced in abundance. Fine for cutting. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Little Dorrit, Blue. This variety grows about 6 inches high; flowers bright blue. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

ALYSSUM

This most popular hardy annual needs little introduction. Used extensively as a border for the flower-garden, but equally valuable as a cut-flower, owing to its delightful fragrance.

Little Gem (*A. maritimum*). Plants grow only 3 to 4 inches high, and each plant completely covers a circular space of 12 to 20 inches. Pkt. 10 cts., oz. 75 cts.

Sweet Alyssum (*A. Benthami*). The well-known fragrant white variety. Pkt. 10 cts., oz. 50 cts.

ANTIRRHINUM (Snapdragon)

This is considered one of the finest perennials which may be flowered from seed the first year. Plant-breeders in Europe and America vie with each other in introducing new strains each year. They are very valuable both as a cut-flower for home decoration or for bedding. We offer below ten choice varieties of the Half-High type and six varieties of the Tall type. The Tall varieties are best seen to advantage in long borders in flower-gardens, making splendid subjects for backgrounds, while the Half-High type have now superseded the others in popularity on account of their suitability for bedding. Seed may be sown in the open ground early in May and be had in bloom in July, but it is best to start the plants indoors in pots or flats or in a frame in March and transplant the seedlings out-of-doors as soon as weather will permit.

Giant-Flowered Tall Varieties

Height about 3 feet

We offer a selection of the best six colors:

Garnet. Garnet.

Delicate. Rose-pink.

Queen Victoria. White.

NAMED VARIETIES, each, pkt. 15c., $\frac{1}{4}$ oz. 75c.; Mixed, pkt. 10c., $\frac{1}{4}$ oz. 60c.

COLLECTION: One pkt. each of above 6 distinct colors, 50 cts.

A list of Hardy Perennials
will be found on page 42

ARCTOTIS GRANDIS African Daisy

A remarkably handsome annual from southwestern Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface. There are few annual flowers grown in the garden more valuable for cut-flower work than the Arctotis. It is easily grown from seed, and may be started in hotbed, in the house or in the open ground, the seed germinating in about five days. The plants may be expected to come into bloom early in June and continue until quite hard frost. It delights in a sunny situation. As a cut-flower it is especially valuable, the blooms lasting a week or ten days in water, and if undeveloped buds are cut and placed in a sunny window, every one will open and produce as fine flowers as though left on the plant. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.



Ageratum



S. & W. Co.'s Queen of the Market Strain Asters

S.&W.Co.'s Late Branching Asters

(LATE)

This exceptionally fine Aster is without a rival. It is as well known in Europe as in America, and although we placed it on the market only a few years ago, today every florist has a fine stock of the flowers in his window just before the chrysanthemum comes in; and it is often mistaken for the chrysanthemum, which it so much resembles. The flowers are of extraordinary size—much larger than other varieties—and stand erect on long, graceful stems, well above the foliage; flower-stems 15 to 20 inches long. Grand for cutting. Plants extra large and of strong growth; one plant will cover a space 2½ feet square. By far the most satisfactory Aster grown.

	Pkt.	1/4oz.
Pure White	\$0 10	\$0 50
Rose-Pink	10	50
Purple	10	50
Shell-Pink	10	50
Lavender	10	50
Crimson	10	50
Mixed	10	40

Any of the above, \$1.50 per oz.

Giant Comet Asters

Flowers of immense size, often 6 inches across, composed of long, wavy, twisted petals, gracefully formed into loose, yet densely double half-globes. Each plant bears fifteen to twenty flowers on very long stems, making them especially valuable for cutting.

Pkt.	1/4oz.	
Snow-White...\$0 15	\$1 00	Dark Blue....\$0 15
Rose.....15 1 00		Crimson.....15 1 00
Light Blue...15 1 00		Shell-Pink....15 1 00
		Mixed.....10 1 00

S. & W. CO.'S SUPERB ASTERS

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil enriched with a liberal quantity of Bone Dust No. 2, and an addition of air-slaked lime, and we do not advise growing them on the same ground two years in succession; it is better to change each season. For early flowering, seeds should be started in a sunny window, hotbed or coldframe in April and transferred to their place in the garden as soon as danger of frost has gone by. For August (midseason) and September (late) sow seeds outside in finely prepared ground in May, thinning out to 1 foot in the rows and 2 feet between. With the above prescribed treatment and frequent cultivation of plants to insure a steady growth until flowering, excellent large blooms with long stems can be obtained.

Queen of the Market Asters

(EARLY)

	Pkt.	1/4oz.	Oz.
Extra-Early White.....	\$0 10	\$0 50	\$1 50
" " Crimson.....	10	50	1 50
" " Flesh-Pink.....	10	50	1 50
" " Rose.....	10	50	1 50
" " Dark Blue.....	10	50	1 50
" " Light Blue.....	10	50	1 50
" " Finest Mixed.....	10	40	1 40

Pkt. each of above 6 varieties, 50 cts.

King Asters

A distinct type; plants are of strong, sturdy habit, fully 18 inches high; the flowers are of large size and good substance, and with long narrow petals, which are more or less quilled, forming a very attractive flower.

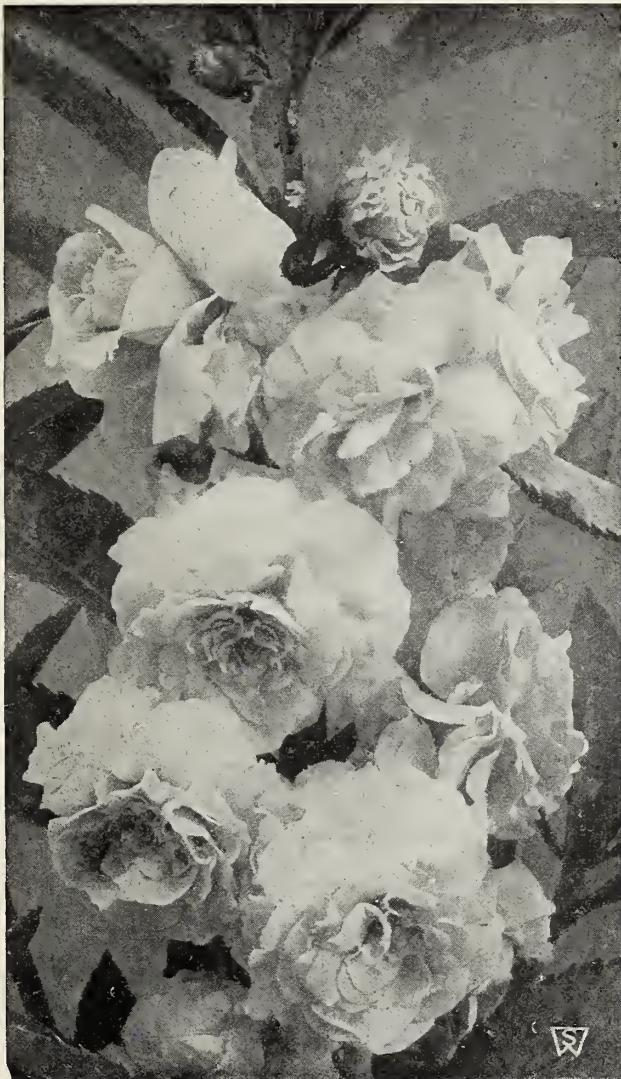
	Pkt.	1/4oz.
Crimson King. Rich deep crimson.....	\$0 15	\$1 25
Lavender King. Pale lavender.....	15	1 25
Pink King. Delicate shell-pink.....	15	1 25
Rose King. Beautiful bright rose.....	15	1 25
Violet King. A soft shade of violet.....	15	1 25
White King. Large, pure white.....	15	1 25
Mixed King.....	15	1 25

Pkt. each of above 6 King Asters, 75 cts.



S. & W. Co.'s

Late Branching Aster



Double Camellia-Flowered Balsam

CARNATIONS

Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable, both for greenhouse culture in winter and for the garden in summer. The Marguerite type is one of the best for summer flowering.

Giant Marguerite Carnations

These are deservedly the most popular Carnations with the amateur, as they begin flowering in July or August if sown early in the spring. The strain offered is of extra-fine quality, producing on long, strong stems an abundance of large, double, beautifully fringed, highly scented flowers; with slight protection they will survive an ordinary winter and bloom freely the following spring.

Giant Pink
Giant Crimson

Each, pkt. 10 cts., $\frac{1}{4}$ oz. \$1, oz. \$3

Giant Scarlet
Giant White

Giant Yellow
Giant Mixed

CARDINAL CLIMBER

Ipomoea Quamoclit hybrida

A rapid grower, often attaining the height of 30 feet or more. The deeply laciniated, fern-like foliage and fiery cardinal-red flowers are borne in profusion from July to frost. The flowers are about $1\frac{1}{2}$ inches in diameter and are borne in clusters of five to seven blooms. Seed may be sown indoors during April, or outdoors in May. Soaking seeds in warm water before planting hastens germination. Pkt. 15 cts., 2 pkts. 25 cts.

DOUBLE CAMELLIA-FLOWRED BALSAM

Lady's Slipper

An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored, double flowers in the greatest profusion; of easiest culture; succeeds in a good, rich soil. Tender annuals. 2 feet. Start the seed indoors in April, or sow out-of-doors in May. When specimens are wanted, plant at least 18 inches apart; splendid when grown in pots.

S. & W. Co.'s Double Mixed. A mixture of selected self-colors as well as beautiful, spotted, blotched and striped varieties. Pkt. 10 cts., oz. \$1.

CALENDULA

Pot Marigold

This is one of the best and showiest, free-flowering, hardy annuals, growing in any good garden soil, and producing a fine effect in beds or mixed borders.

Pkt. $\frac{1}{4}$ oz.

Golden King. Rich golden yellow.....\$0 25 \$0 50

Lemon King. Rich lemon-yellow.....25 50

Choice Double Mixed.Oz. 50 cts... 10

CALLIOPSIS

Showy and beautiful, free-flowering annuals and perennials, of the easiest culture, doing well in any sunny position, blooming all summer, and excellent for cutting and massing. It is best to sow them where they are to bloom; thin out to stand 6 inches to 12 inches apart. By keeping the old flowers cut off, the flowering season can be lengthened until late autumn.

Annual Varieties

Golden Wave.

Rich golden yellow, chestnut-brown center. Height 1 foot. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Choice Mixed

Pkt. 10 cts., oz. \$1.



Calendula



S. & W. Co.'s Giant Hyacinth-flowered Candytuft

CELOSIAS

Celosia cristata (Cockscomb)

Free-blooming annuals, growing best in rather light soil, not too rich; make grand border plants and are attractive for pots. Seed can be sown under cover in early spring and planted out in May, or may be sown outdoors in May. If dwarf growth is desired, do not crowd.

Empress. Rich crimson. 1 foot. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.

Glasgow Prize. Dark crimson. 1 foot. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.

Dwarf Mixed. 1 foot. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.

Celosia plumosa (Feathered Cockscomb)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets. Should be treated same as Cockscomb described above.

Ostrich-plumed, Crimson. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Ostrich-plumed, Yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Ostrich-plumed, Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Chinese Woolflower (*Celosia Childsii*)

This is a unique form of the feathered Cockscomb, growing 2 to 3 feet high and about the same size in diameter. Each branch is terminated with a large head of rich crimson flowers that look as if made out of some silky wool material. A very effective annual for beds and borders. May be used to excellent advantage as a cut-flower as well.

We offer in three separate colors, namely: **Crimson, Pink, Yellow;** also in **Mixed.** Each, per pkt. 15 cts., 2 pkts. 25 cts.

COLEUS

Tender perennial. Showy bedding plants which are grown for their brilliant foliage. The leaves range from light to dark red in color and are very finely marbled and spotted. Used extensively in ribbon beds and as foliage plants. Choice mixed. Pkt. 25 cts.

CONVOLVULUS

Morning-Glory

Dwarf Bedding Varieties. Mixed. Pkt. 10 cts., oz. 30 cts.

Tali or Climbing Varieties. Mixed. Pkt. 10 cts., oz. 30 cts.

Mixed Imperial Japanese (Emperor Morning-Glory). These are beyond question the handsomest of all Morning-Glories. Of the easiest culture; can be sown in the open ground in a sunny situation when the weather has become warm and settled. They soon cover a large area, and even before flowering are decidedly interesting on account of the varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description. The self or solid colors range from snow-white to black-purple, with all the possible intermediate shades; there is also an endless number having flowers spotted, marbled, striped, flaked, splashed, etc. Pkt. 10 cts., oz. 50 cts.

CANDYTUFT (*Iberis*)

The Candytuft is almost as fragrant as the sweet alyssum and very popular. Very useful as a bedding plant or for border work. Sow outdoors in April, where it is to bloom, and thin well when the plants grow about 1 inch. Sow also in July for fall blooming. Where grown in rows, best results for cut-flowers can be obtained only by giving the plants at least a foot apart in the rows and 1½ feet between the rows.

	Pkt.	Oz.
S. & W. Co.'s Giant Hyacinth-flowered. We consider this the finest white variety, which, through selection, has been greatly improved. The flowers are of large size, borne in large trusses well above the foliage. Finest for cutting or for the border.....	\$0 15	\$2 00
Empress. Excellent; white.....	10	1 00
Dunnell's Crimson. Deep crimson.....	10	75
Pink Beauty. New. Fine pink. Height, 1 foot.....	15	2 00
Lilacina. Lilac. Height, 1 foot.....	10	75
Mixed, All Colors.	10	50

CASTOR-OIL PLANT

Ricinus

The Ricinus are tall, stately growing plants of tropical appearance; their luxuriant foliage renders them exceedingly ornamental. They are free-growing, tender annuals of easy cultivation. Half-hardy annuals.

Pkt.

Communis (Castor-Oil Plant). Green foliage. 6 feet.....\$0 10

Zanzibarensis. New Giant Castor-Oil Plant from Africa..... 10

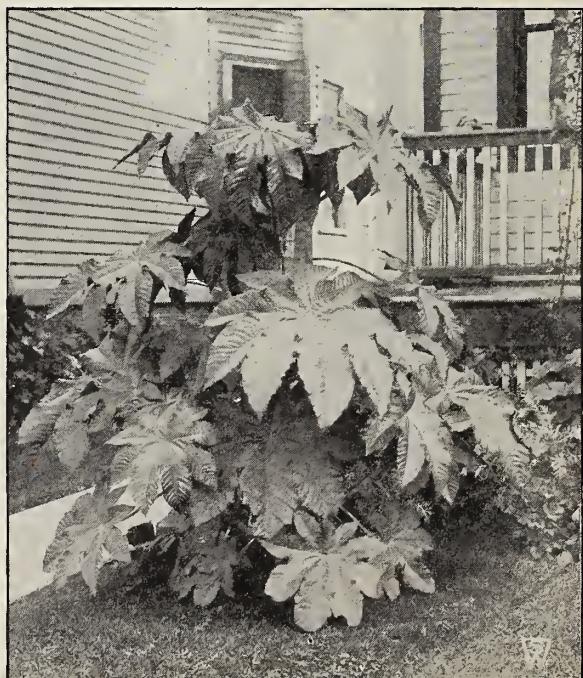
Mixed.Lb. \$2, oz. 25 cts. 10

CYPRESS VINE

Ipomoea Quamoclit

One of the most popular of annual climbing plants with very delicate fernlike foliage, and masses of beautiful, small, star-shaped flowers. It is advisable to soak seed in water for a few hours before planting out in order to hasten the germination. Frequently attains a height of 15 feet; sow outdoors in May. **We offer it in three colors, also in a mixture.**

Crimson	White	Pink	Mixed
Each, pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.			



Castor-Oil Plant

CENTAUREAS

There is, perhaps, no more popular annual than the Centaurea. Will grow well anywhere and as a cut-flower is much in demand.

Cornflowers (*Centaurea Cyanus*)

SOMETIMES CALLED BACHELOR'S BUTTON, BLUE BOTTLE, RAGGED SAILOR, ETC.

This type of Centaurea is well known and no garden is complete without them. Seeds should be sown in the spring or fall. When large flowers are wanted, plants should be thinned out to a space of, say, 8 square inches.

Cyanus, Single Blue. Old-fashioned blue corn-flower. Well-known, favorite cut-flower... \$0 10 \$0 30
 " Mixed Single..... 10 30

Cyanus, Double Blues

A variety largely used by commercial florist on account of its large size. Much in demand for cutting, taking fewer than the single varieties to make a bunch. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Cyanus, Double Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Giant Sweet Sultans (*Centaurea imperialis*)

This beautiful class is undoubtedly the finest of all the Sweet Sultans for cutting purposes. Beautiful, deliciously sweet-scented flowers are borne on long, strong stems and are particularly striking, lasting several days after cutting. We recommend sowing in succession every two weeks from May until July, thereby giving a continuous bloom from summer to fall.

Imperialis, White. Large and exquisitely sweet-scented.

Imperialis, Pink. Pink, with tinge in center.

Imperialis, Purple. Brilliant rosy purple.

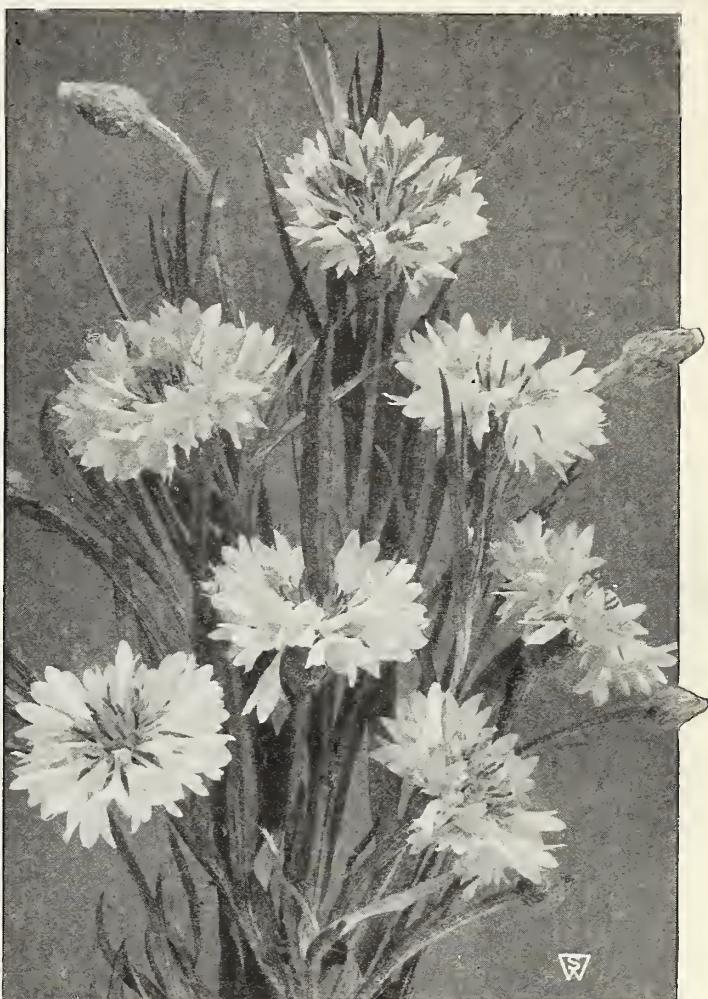
Imperialis, Lilac. Beautiful lilac.

Imperialis, Rose. Brilliant rose.

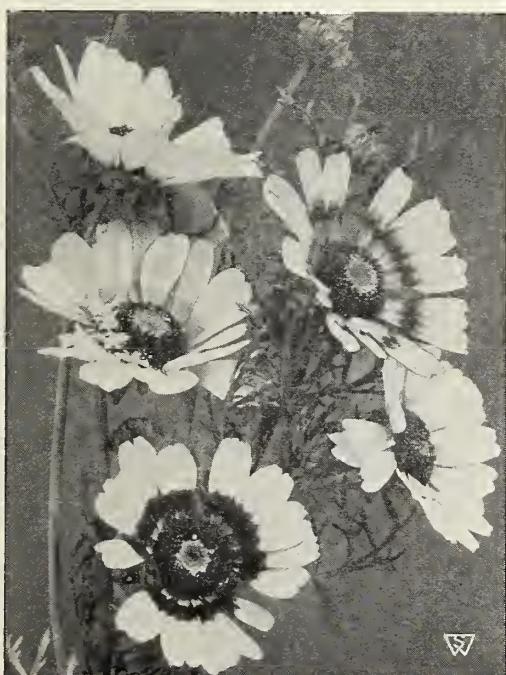
Imperialis, Mixed. A select mixture of above colors.

Pkt. of any of the above 15 cts., $\frac{1}{4}$ oz. 50 cts.

COLLECTION: One pkt. each of the 5 colors, 50 cts.



Centaurea Cyanus (Cornflower)



Annual Chrysanthemums

CHRYSANTHEMUMS

ANNUAL VARIETIES

We offer a choice selection of the best varieties of this showy hardy annual. They are splendid subjects for the border or for cutting. The plants average 2 feet in height, and bear their daisy-like flowers in great profusion on strong stems.

	Pkt.	2 pkts.
Beaconsfield. White, with a pink center.....	15	\$0 25
Morning Star. Petals canary-yellow, with a halo of deeper yellow, disc darker	15	25
The Sultan. Rich wallflower-red with a narrow yellow zone around the brown disc.....	15	25
Golden Queen. Double; golden yellow.....	15	25
White Queen. Double; pure white.....	15	25
Single Annual Varieties Mixed. A choice mixture of Single-flowering varieties.....	10	$\frac{1}{4}$ oz. \$0 50
Double Annual Varieties Mixed. Mixture of double varieties....	10	50

Cobaea (Cup-and-Saucer Vine)

A climber of rapid growth, attaining a height of 30 to 50 feet during the season, valuable for covering trellises, arbors, trunks of trees, etc.; will cling to any rough surface. In sowing, place seeds **edgewise** and merely cover lightly with soil; to get early results, start the seed indoors in March or April; can also be sown out-of-doors in May.

Scandens. Large bell-shaped purple flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Scandens alba. Pure white. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts.



Mammoth Tall White Cosmos

LADY LENOX. This is the very latest development of this popular autumn flower, bearing gigantic flowers, the petals having a wide overlapping character and of splendid substance; its beautiful, deep rosy pink color and splendid form make this Cosmos one of the most widely grown. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Lady Lenox, White. Similar to above, but white. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.

New Double-Flowering Cosmos

Some years ago, when we first offered in our Novelties and Specialties this splendid new form of Cosmos, which was of Australian origin, we considered it a notable addition to this beautiful family of easily grown annuals for cutting. We are pleased to announce, however, that due to the painstaking effort on the part of an American grower, this strain has been further improved upon, in size of flower, greater degree of doubleness, and general vigor of the plant. We offer three distinct colors as well as a mixture of the three.

Double Pink. Beautiful rose-pink.

Double White. Pure glistening white.

COSMOS

This is one of the most notable summer and fall flowers, the specialists' skill having added much to its beauty. Many professional gardeners sow their Cosmos late in the spring, as it has been demonstrated, particularly with the Late Mammoth-flowering Tall Cosmos, that early sowing frequently makes enormous, heavy-wooded plants which do not flower any earlier than if sown later.

We recommend the sowing of Cosmos about the first of May, outdoors in rows, covering the seed about $\frac{1}{4}$ inch, and when the plants are about 3 inches high, thin out or transplant to not less than 2 feet apart. Any garden soil will grow Cosmos to perfection; frequent cultivation around the base of the plants will greatly benefit them.

Extra-Early-Flowering Dwarf Cosmos

Frequently the amateur finds that the Cosmos of the Late-flowering Tall type, selected by him for growing in borders or beds with other annual flowers, is unsuitable because of its flowering late in the summer, and also growing to the height of 6 to 8 feet. We, therefore, take pleasure in offering this new Early-flowering Dwarf Cosmos, which, if sown outdoors about the first of May, will give an abundance of cut-flowers for the table or home decoration from July until cut down by frost.

This type of Cosmos grows about 4 feet high, and while the flowers are not quite so large as the Late Mammoth-flowering type offered on this page, they are admirably adapted to the use of the suburbanite whose garden-space is small. To those who desire the larger-flowering type, which flowers late, after most other flowers are past, we recommend our Late Mammoth-flowering Tall Cosmos.

	Pkt.	$\frac{1}{4}$ oz.	Oz.
Early-flowering, White.....	\$0 10	\$0 75	\$2 50
" " Pink.....	10	75	2 50
" " Crimson.....	10	75	2 50
" " Mixed.....	10	75	2 50

Late Mammoth-Flowering Tall Cosmos

This type of Cosmos, which has been greatly improved over the old tall small-flowering varieties, flowers late in the summer—usually September in this latitude—and coming at this season of the year, when nearly everything in the garden has finished blooming, it is a very desirable addition.

These tall, graceful plants are most effective when planted in broad masses along background borders against evergreens or shrubs. The gigantic flowers, borne on long stems, and the feathery foliage lend themselves to graceful arrangements for bouquets.

	Pkt.	Oz.
Mammoth Tall, White.....	\$0 10	\$1 00
" " Pink.....	10	1 00
" " Crimson.....	10	1 00
" " Mixed.....	10	1 00

Each, pkt. 20 cts., 6 pkts. \$1

Double Crimson. Rich rose-crimson.
Double Mixed. Mixture of the three.

DIANTHUS (Pinks)

In this large and greatly varied genus are some of our most beautiful and best-loved flowers, unsurpassed for color and fragrance. They are hardy biennials that bloom finely the first season, remaining green all winter and blooming the next year also, if lightly protected. Old plants flower the earliest, but as young ones give the largest, finest flowers, sowings are made every year. Seed may be sown in the open in early spring when the danger of frost is past and if the situation is open and the ground is well prepared, they will flower luxuriantly in a few weeks' time and continue until hard frost. For best results seedlings should be thinned out to have plants stand 6 inches apart. They average 1 foot in height and are splendid for borders and for cutting. The double-flowering varieties are quite as fine as carnations for cutting.

Double Annual Varieties

Chinensis fl.-pl. (China, or Indian Pink). Flowers Pkt. $\frac{1}{4}$ oz. are borne in clusters, very double and in a large range of bright colors.....	\$0 10	\$0 25
Hedgewigii fl.-pl. (Double Japan Pink). Double mixed, colors varying from richest crimson to most delicate rose.....	10	75
Fireball. New. Extra double brilliant dark scarlet, very beautiful.....	15	1 00
Lacinatus fl.-pl. (Double Fringed Pink). Large double flowers with fringed edges. Various colors.....	10	75
Salmon King. Brilliant salmon-rose.....	10	50
Snowball. Large; double; white; excellent for border or cutting.....	15	50
Violet Queen. A rich violet—rather unusual shade...	10	75

S. & W. Co.'s Special Mixture of Annual Sorts. A grand collection of these ever-popular garden, or China Pinks. All large-flowering varieties, unrivaled for brilliancy and rich variety of color, and bloom in perfect succession during the whole summer and autumn in such numbers as fairly to crowd each other for room. Mixed colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

DIDISCUS CÆRULEA

Queen Anne's Lace Flower

This pretty annual, which was cultivated extensively in the gardens of our grandparents, has been brought to prominence again. Florist shops throughout the country now display it, and its lovely, refined appearance and color make an instant appeal. Few flowers are as lovely for decorating the dinner table. Queen Anne's Lace Flower grows into an upright, very much-branched plant about 2 feet high. Each branch ends in an umbel of sky-blue flowers which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. Each individual bloom in the umbel is carried on a thin and long tube, giving the flower-heads a distinct and refined appearance. The name Queen Anne's Lace Flower is most appropriately applied to the flowers, since the graceful form of the umbels of bloom resemble in their quaint and artistic arrangement the most delicate and dainty lace. It is easily grown and a splendid cut-flower, lasting unusually long in water. Seed may be sown outdoors in a well-prepared seed-bed when trees are out in leaf; water copiously during hot weather. Pkt. 25 cts., 5 pkts. \$1.

DIMORPHOTHECA (African Golden Daisy)

An easily cultivated annual that will give a magnificent display all the summer.

Aurantiaca. Golden orange.....	Pkt. $\frac{1}{4}$ oz.	\$0 10	\$0 50
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DOLICHOS (Hyacinth Bean)

A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods. Fine for covering arbors, trellises, etc. Sow the seed in the garden in beds where it is to remain. Height 10 feet.

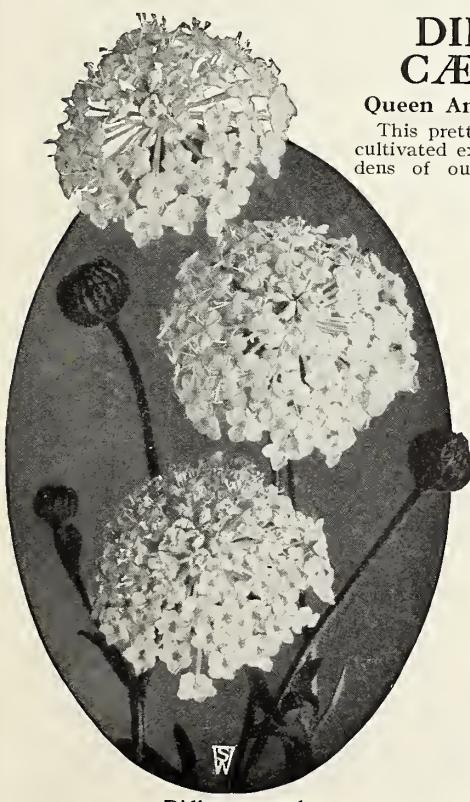
Daylight. This grand Hyacinth Bean comes from Japan. In our trial-grounds, Pkt. Oz. plants from seed sown late in May had, by the middle of July, attained a height of over 10 feet, and were covered with spikes of snow-white, pea-shaped blossoms from then until late fall. The heart-shaped foliage is bright green and not affected by insect pests.....

Darkness. Identical in every way with the above, except in color, which is a rich purple-violet.....

Lablab, Mixed......



Double Annual Pinks



Didiscus cærulea

ESCHSCHOLTZIA (California Poppy)

Profuse-blooming annuals, for beds, edging or masses. Bloom from early summer to frost. We offer below a choice list of what we consider the finest varieties in commerce.

Golden West.	Bright yellow, dark orange at the base of the petals.....	Pkt. $\frac{1}{4}$ oz.	\$0 10	\$0 50
Lovely.	A lovely tone of bright rose-pink suffused with salmon. The blooms have a satiny appearance which adds very much to the effect.....	20	1 50	
Vesuvius.	Rich coppery red which glistens in the sunlight.....	10	50	
S. & W. Co.'s Choice Mixture.	We have prepared a mixture of named sorts covering all the beautiful colors in this pretty annual.....	10	50	



Eschscholtzia

FOUR O'CLOCK

Mirabilis

Well-known, free-flowering plants. Called Four o'Clock because they open their blossoms at that hour in the afternoon; also called Marvel of Peru. Hardy annuals. 2 feet.

Fine Mixed. All colors. Pkt. 10 cts., oz. 30 cts.

GAILLARDIA (Blanket Flower)

ANNUAL VARIETIES

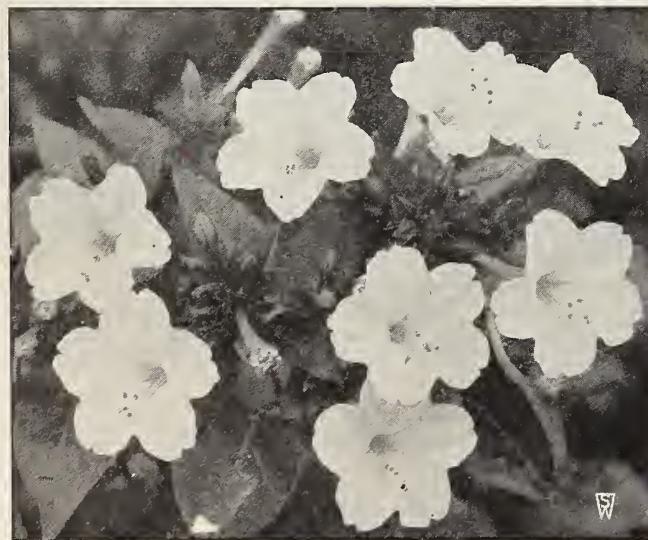
Very showy annuals of easy culture. The flowers are borne freely and are brilliant in tone. Excellent for borders and do best if sown in May. Flower in great profusion from July to November.

	Pkt.	$\frac{1}{4}$ oz.	\$0 10	\$0 50
Amblyodon. Rich blood-red. 2 feet.....				
Aurea. Rich yellow. 2 feet.....	10	50		
Picta Lorenziana. A mixture of various colors. The flowers are double and excellent in form.....	10	50		

GODETIA

This beautiful hardy annual deserves more extensive cultivation. The plants bloom profusely and are splendid for bedding. We also recommend that those with greenhouse facilities try growing these as a pot-plant for winter decoration. We offer the single-flowering sorts, which grow about 1 foot high, and the double varieties, which attain the height of 2 feet.

Choice Mixed. Pkt. 10 cts.



Four o'Clocks

GOURDS

A vigorous class of plants, with curiously formed and often strangely colored fruits. The foliage is abundant and often curious.

Pkt.	\$0 10
Mock Orange.	
Apple-shaped.	10
Dish-Cloth, or Chinese Luffa.	10
Dipper.	10
Hercules' Club.	10
Mixed. All sorts.....	10

GLOBE AMARANTH

Gomphrena

Popularly known as "Bachelor's Button." A first-rate bedding plant. The flowers resemble clover heads and can be dried and used in winter bouquets. Cornflowers and a number of other flowers are also known as Bachelor's Buttons, and in ordering it is well to order by name to prevent errors. We offer them in separate colors and in a mixture as well.

Rose
White

Purple
Mixed

Each, pkt. 10 cts., oz. 75 cts.

GYPSOPHILA

Baby's Breath

Pretty, free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut-flowers.

Elegans grandiflora alba. This is an improved, large-flowering, pure white form of the annual Baby's Breath; of free, easy growth, and grown by the acre in the suburbs of Paris and London for use with other cut-flowers. Several sowings should be made during the season to keep up a supply..... \$0 10 \$0 50



Helichrysums

HELIANTHUS Sunflower

Much-prized annuals and perennials for cutting; the tall sorts are largely used in the perennial border; the dwarf sorts make good edgings to the tall.

Annual Sunflowers

The annual sorts of Sunflowers are indispensable for cutting. Sown in a sunny location in April or early May, they come to bloom early in the summer and flower continuously until cut down by frost.

Cut-and-Come-Again, Mixed. A mixture of the tall-growing, large-flowering types for cutting..... Pkt. $\frac{1}{4}$ oz. \$0 10 \$0 50

Cucumerifolius (Miniature Sunflower). Small, single, rich yellow flowers; an abundant bloomer. 4 feet.... 10 30

Globosus fistulosus (Globe or Dahlia Sunflower). Flowers large, double and of a rich saffron. 6 feet.... 10 30

Gigantic Russian. The large-flowering Russian variety. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts. $\frac{1}{2}$ lb. 40 cts., lb. 75 cts.

HELIOTROPE

A half-hardy perennial, flowering during the whole season. Its delightful perfume makes it a most desirable bouquet flower. A splendid bedding plant, or can be trained as a greenhouse climber. Seed started indoors in the spring will make fine plants for summer blooming. Can also be sown outdoors in May. Pkt. $\frac{1}{4}$ oz.

Queen Marguerite. Large; dark blue..... Pkt. $\frac{1}{4}$ oz. \$0 15 \$1 50

HUMULUS Japan Hop

A rapid summer climber which attains a height of 20 to 30 feet, resembling the common Hop, but, being an annual, attains full perfection the first season. The foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc., producing grateful shade and being very ornamental. Heat, drought and insects do not trouble it.

Pkt. $\frac{1}{4}$ oz. $\frac{1}{2}$ oz. Oz. \$0 10 \$0 30 \$0 50 \$0 75

HELICHRYSUM (Straw Flower)

This is, undoubtedly, the most popular of the Everlasting Flowers. Their twofold purpose suggests their more general cultivation. The newer and improved varieties offered are very attractive when grown in beds in the garden, and they keep well as cut-flowers. When dried, their rich, bright colorings are valuable for winter decorations. Plants grow readily from seed sown in the open ground when the trees are starting out in leaf, and in order to give them ample space for maximum development, thin out to leave at least 1 foot between the plants. The blooms that are desired for winter decoration should be cut with as long stems as possible when they are about one-third open, then, after the foliage is stripped from the stem, tied in bunches and hung, flowers downward, in some dark, cool, dry place until cured.

	Pkt.	$\frac{1}{4}$ oz.	Oz.
Rose Queen. Bright rose.....	\$0 15	\$0 50	\$1 50
Snowball. White.....	15	50	1 50
Salmon Queen. Soft salmon.....	15	50	1 50
Golden Ball. Rich golden yellow.....	15	50	1 50
Fireball. Richest crimson.....	15	50	1 50
Violet Queen. Pleasing shade of violet.....	15	50	1 50

COLLECTION: Pkt. each of above 6 fine varieties, 50 cts. $\frac{1}{4}$ oz. each of above 6 fine varieties, \$2.50

DOUBLE, CHOICE MIXED. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Other Everlasting Flowers of Interest Include:

Acroclinium. Double flowers in several colors. Pkt. 10 cts.

Globe Amaranth. Described on page 30. Pkt. 10 cts., oz. 75 cts.

Rhodanthe. Delicate little flowers in various colors. Pkt. 10 cts.

Statice (Sea Lavender). A perennial plant. Pkt. 10 cts.

Xeranthemum (French Immortelle). Various colors. Pkt. 10 cts.



Sunflowers



Kochia tricophylla

KOCHIA (Summer Cypress; Mexican Firebush)

Trichophylla. A pretty half-hardy annual, 2 to 3 feet in height, which grows into a perfect pyramidal-shaped cypress bush, with small, feathery, light green foliage, deepening as the season advances until it becomes a lovely crimson hue about September. Excellent for edging or hedging. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

ANNUAL LARKSPURS

These are among the best-known garden flowers, and in recent years a vast improvement has been effected by careful selection in size and color of the blossoms and the general habit of the plant. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from them until frost, a record that is not surpassed by any other annual. They make handsome beds or lines, and their free, graceful habit and bright colors are very effective when interspersed in the old-fashioned flower or shrubbery border. They stand well when cut, and a vase of one or mixed colors is indeed charming.

Double Stock-Flowered

This is the finest variety of this very popular annual, with beautiful double flowers. Height $2\frac{1}{2}$ to 3 feet.

Snowstorm. Pure white. **Stella.** Sky-blue. **Loveliness.** Shell-pink.
Attraction. Bright rose. **King of the Blues.** Dark blue.

Defiance. A decided improvement over the Newport Scarlet. This Larkspur is of the same habit as our Double Stock-flowered; the plants however, are a trifle taller in growth.

Each, pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50

Tall Stock-flowered, Mixed. A select mixture of our famous Stock-flowered strain. Pkt. 10 cts., oz. 75 cts.

LANTANA

One of the most desirable half-hardy greenhouse or bedding plants, which bloom constantly. The flowers are borne in verbena-like heads of orange, white, rose, etc. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

LOBELIA

These bloom very quickly from seed and flower all through the season. For beds, edgings, baskets, and pots there is nothing prettier. Sow outdoors in early spring, where the plants are to grow, and thin moderately; or transplant several inches apart in rich, open soil. Some stimulant given when they are in bloom greatly improves the flowers. Almost all are also good winter conservatory plants of trailing habit. The perennial or tall varieties are handsome, showy plants and will be found quite effective for backgrounds and grouping.

Crystal Palace Compacta. Rich deep blue; dark foliage. The finest Pkt. $\frac{1}{4}$ oz. variety for bedding..... \$0 10 \$2 00

Speciosa. Dark blue; dark foliage; extra fine; trailing..... 10 1 00

HUNNEMANNIA

Giant Yellow Tulip Poppy; Bush Eschscholtzia

Fumariæfolia. This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

IPOMŒA

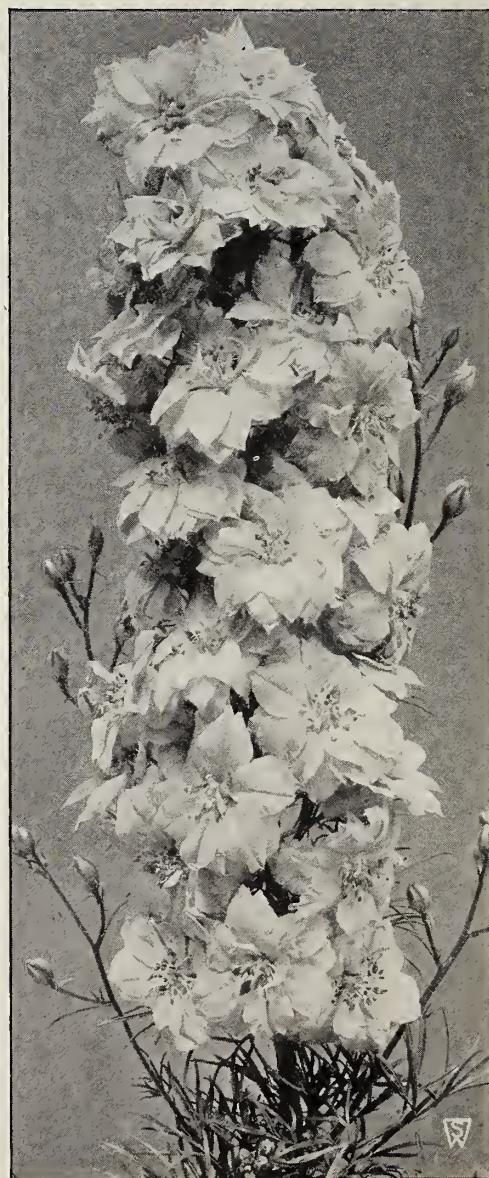
Climbers of rapid growth, with beautiful and varied flowers. For covering walls, trellises, arbors, or stumps of trees they are invaluable. It is well to soak the seed in warm water over night to assist in germination.

Bona-nox (Evening-Glory). Rosy lilac flowers, expanding in the evening; of very rapid growth. Pkt. 10 cts., oz. 75 cts.

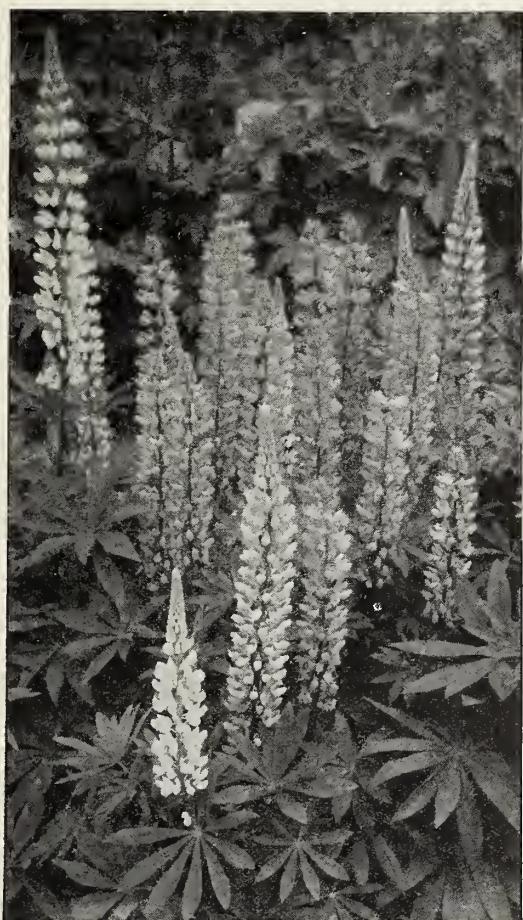
Grandiflora mexicana alba (Moonflower). At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers, 5 to 6 inches in diameter. It grows rapidly and will cover a large surface. Pkt. 10 cts., oz. 75 cts.

Rubra cœrulea (Heavenly Blue). Immense flowers of bright sky blue, very beautiful. Pkt. 15 cts., 2 pkts. 25c.

Mixed Imperial Japanese (Emperor Morning-Glory). The handsomest of all Morning-Glories, and of the easiest culture. Great variety of shades, and some of the flowers are spotted, marbled, and striped. Pkt. 10 cts., oz. 50 cts.



Larkspur, Double Stock-flowered



Lupinus

LUPINUS

Lupine

This very interesting class of plants is of easy culture and produces beautiful leaves and pea-shaped flowers. It should be more generally cultivated. The following annual varieties may be sown out in the open in May and as plants grow, thin out, leaving about 1 foot between the plants.

Annual Varieties

Rich Blue

White

Rose

Each, pkt. 10 cts., oz. 50 cts.

S. & W. Co.'s Finest Mixture. A splendid mixture of the Annual Lupines for cutting. Pkt. 10 cts., oz. 40 cts.

MARIGOLD

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders; the latter are dwarfer in growth, with beautifully striped flowers, and are better suited for bedding purposes and for pot culture. They succeed best in a light soil, with full exposure to the sun. A vase or bowl of any of the rich yellow sorts in combination with a few blue larkspurs or cornflowers is very striking.

Tall Double African Marigolds

Giant Show Lemon. This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. Pkt. 25 cts., ¼oz. \$1.

Giant Show Orange. The darker form of the preceding variety. Height 2½ feet. Pkt. 25 cts., ¼oz. \$1.

Lemon Quilled. Deep double lemon flowers daintily quilled. Pkt. 10 cts., ¼oz. 50 cts.

Tall African. Mixed. Pkt. 10 cts., ¼oz. 50 cts.



African Marigold

Dwarf French Marigolds

Few annuals are as effective as the French Marigold, or bloom for as long a period. They form compact bushes 1 foot high, and are unequalled for borders or beds.

Golden Ball. Double, pure golden yellow.

Legion of Honor (Little Brownie). A charming single-flowering Marigold forming dense, compact bushes about 9 inches high. They begin to bloom in June and continue until frost. The flowers are golden yellow marked with a large blotch of velvety crimson at the base of each petal.

Each, pkt. 25 cts., ¼oz. \$1

Dwarf French. Mixed. Pkt. 10 cts., ¼oz. 50 cts.

MATTHIOLA

Evening-scented Stock

Bicornis. This old-fashioned annual has no beauty to recommend it, the flowers being a dull purplish lilac, but it is well worth growing for the entrancing fragrance which it emits during the evening. 1 ft. Pkt. 10 cts., ¼oz. 50 cts.

MOMORDICA

Balsam Apple; Balsam Pear

Luxuriant annual climbers, with large leaves, making dense shade. The flowers are followed by ornamental, large fruits of orange or copper color, which burst and expose an interior of red, which is highly effective. 15 to 20 feet.

Balsamina (Balsam Apple). Orange fruits. Pkt. 10 cts., oz. 75 cts.

Charantia (Balsam Pear). Coppery scarlet fruits. Pkt. 10 cts., oz. 75 cts.

MIGNONETTE

Reseda

Well-known little hardy annual plants, with sweet-scented flowers, at home everywhere, either in the greenhouse, garden or sitting-room.

Allen's Defiance. This gorgeous Mignonette has qualities heretofore unknown in large-flowering varieties, being deliciously fragrant. When grown under favorable conditions and with proper care, its spikes will be from 12 to 15 inches long. The individual florets are of remarkable size and stand out boldly, forming a graceful as well as compact spike. Its remarkable strength is accompanied by extraordinary keeping qualities; the spikes have been kept in a vase three weeks after cutting, retaining their grace and fragrance until every bud opened. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Improved Large-flowering. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Machet. A dwarf French variety, with broad spikes of very fragrant red flowers; one of the best varieties for either garden or pot culture. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

NEMOPHILA

Splendid annuals for garden decoration; bright-colored flowers, in shades of blue, white, and violet 1 foot.

Finest Mixed. Pkt. 10 cts.

NICOTIANA

Affinis. An annual with sweet-scented, pure white, star-shaped flowers, 3 inches across, blooming continually. 2 to 3 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

NIGELLA

Damascena, Double Mixed (Love-in-a-Mist). Pretty garden annuals with feathery green foliage, in which large, double, charming blue or white flowers are set. 1 to 2 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

Miss Jekyll. A lovely variety with cornflower-blue blossoms; splendid for cutting. Hardy annuals. About 2 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.



Mignonette



Forget-me-nots



Nigella, Miss Jekyll

MYOSOTIS

Forget-me-not

Few spring flowers are more admired than the lovely Forget-me-not which is especially effective for mass planting. It is perennial and hardy if given slight protection through the winter. Seed may be sown any time from spring until mid-summer. The Alpestris varieties and Dissitiflora come into bloom in April, with the spring-flowering bulbs, etc. The Palustris sorts do not bloom till May, but continue till fall.

Alpestris, Royal Blue. Rich indigo-blue flowers. The finest Pkt. $\frac{1}{4}$ oz. and most effective dark blue variety; grows about 9 inches high \$0 10 \$0 75

Alpestris, Victoria. A favorite variety with fine heads of clear azure-blue flowers; plants bushy and compact. Makes a fine edging for beds 15 1 50

Palustris sempervirens. An ever-blooming variety beginning to flower in May and continuing until autumn. Large, clear blue flowers in pretty sprays 15 2 00

NEMESIA

We are pleased to offer a splendid strain of this beautiful half-hardy annual, principally the large-flowered varieties and one of the dwarf, compact sorts.

S. & W. Co.'s Mixed. Rich mixture of all the lovely colors that come in this class of plants. Pkt. 25 cts.

Stumpp & Walter Co.'s Superb Nasturtiums

Few garden annuals respond with as little care as the Nasturtium. For ease of culture, duration of bloom, brilliancy of coloring and general excellence, they are unexcelled. All they need is a moderately good soil, in a well-drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. The varieties offered below were selected, after exhaustive trials, from a very large number of sorts as being the best and most distinct.

NEW GIANT-FLOWERING, TALL AND DWARF

We have arranged with a grower, who has made growing Nasturtiums a specialty, to grow this Giant-flowering strain for us. The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting. We can offer it only in selected mixtures of both the Dwarf Bedding and the Tall Climbing kinds.

Giant Tall, Mixed. Pkt. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.
Giant Dwarf, Mixed. Pkt. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

TOM THUMB DWARF OR BEDDING

Brilliant. Rich scarlet.

Empress of India. Brilliant crimson; dark foliage.

Luteum. Pure, light yellow.

Dwarf Pearl. Pure white.

Price of any of the above named Dwarf sorts, pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

TALL OR CLIMBING VARIETIES

Elegant and luxuriant climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seed-pods can be gathered while green and tender for pickling; 6 to 10 feet.

Crimson. Rich and velvety.

King Theodore. Deep crimson-maroon, dark foliage.

Tall Pearl. Creamy white.

Yellow. Pure yellow.

Price of any of the above named Tall sorts, pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

POPPIES

Annual Poppies should be sown as early as possible in the spring where they are to remain, as they do not transplant readily. It is advisable to mix the seed with builders' sand, using about twenty-five times as much sand as seed, and then carefully broadcast seed on the surface of the ground and firm well. Plants should be thinned out to stand about 4 inches apart for best results. Seed may be sown in rows also and in succession up to the middle of May. It is advisable to pick flowers just as they are expanding as they last longer; removing the old blooms from plants will help lengthen the flowering season.

Single Annual Varieties

Shirley, Carmine Shades. A selection of all the shades of carmine.

Shirley, Rose Shades. A selection of rose-color shades.

Shirley, Salmon Shades. A selection of salmon shades.

Shirley, White Shades. A selection of white shades.

Shirley, Wild Rose. One of the finest varieties of the Shirley, the flowers of which are best described as a pure wild-rose-pink.

Shirley, Mixed. We have prepared a mixture of these beautiful annual Poppies to cover all the shades mentioned above, as well as the deeper shades of scarlet to rich crimson.

Each, pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50

Double Annual Varieties

The Double Annual Poppies require the same cultural treatment as the Shirley. They are excellent to grow for cutting. For best results plants should be thinned out to stand 8 inches apart. Pkt. $\frac{1}{4}$ oz.

Carnation-flowered. Splendid double, fringed flowers.

Mixed colors. \$0 10 \$1 00

Peony-flowered. Large, showy, double globular flowers, resembling a double Peony.

Mixed colors. 10 20

S. & W. Co.'s
Giant-flowering
Nasturtiums



STUMPP & WALTER CO.'S GIANT PANSIES

This very popular annual needs little description. Good results may be obtained from sowing seed in April in a light, cool, but well-moistened soil, enriched with a slight amount of barnyard manure or fine ground bone. Sow seed in drills, covering them five times their diameter, and firm soil. Water once a day, except in very dry weather, when they may be watered twice a day. Seed will germinate in about two weeks and should not be allowed to dry out. A small covering of newspapers will prevent drying out. When plants are large enough to handle, transplant to a distance of 1 foot apart. Where greenhouse and coldframe facilities are at hand, sow in July or August and protect plants during winter.



S. & W. Co.'s Giant Pansies

PORTULACA (Sun Plant)

One of our finest annual plants, of easy culture, thriving best in a rather rich, light loam or sandy soil, and luxuriating in an exposed sunny situation. The flowers are of the richest colors and are produced throughout the summer in great profusion. Fine for massing in beds, edgings on rockwork, and frequently used to sow broadcast over sunny banks, etc. In any case, it is well to mix the seed with three or four times its bulk of dry sand or soil, which permits of even and easy distribution. 6 inches.

Grandiflora, Single, finest mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.
Grandiflora, Double, finest mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1.25.

Pansies in Mixture

Our Pansy Mixtures are prepared in our Flower Seed Department by an expert who has a thorough knowledge of the finest sorts extant, and is done in a very careful manner. Our Pansies have been grown throughout the United States, by leading florists, many of whom have repeated their orders every year, thereby giving their unqualified indorsement to our famous strain.

S. & W. Co.'s Exhibition Strain

This mixture of Giant Pansies has been prepared of the finest varieties grown; blooms of gigantic size, splendid texture; the plants of robust constitution hold their majestic blooms well above the foliage. Every conceivable color and combination of colors has been included. Pkt. 25 cts., $\frac{1}{4}$ oz. \$3, oz. \$10.

S. & W. Co.'s Special Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.50.

Giant Pansies in Separate Colors

Giant Adonis. Soft lavender-blue. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.

Giant Dark Blue. Deep blue. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.

Giant Fire King. Mahogany and gold. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.25, oz. \$4.

Giant King of the Blacks. Black. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.

Giant Snow-White. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.25, oz. \$4.

Giant Pure Golden Yellow. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.

PHYSALIS (Chinese Lantern Plant)

Franchetii. Hardy perennial forming dense bushes about 2 feet high, producing bright orange-scarlet lantern-like fruits. May be had in flower first year from seed if sown early; the fruits are often displayed in florist shops and are very interesting, and of splendid decorative value. Pkt. 25 cts., 5 pkts. \$1.



Grandiflora Portulaca



Phlox Drummondii in foreground

PHLOX DRUMMONDII (Hardy Annual)

One of our best annuals, flowering freely all the summer. For richness of color they cannot be surpassed. They are invaluable for beds and ribbon-gardening, therefore no garden should be without them. They should be sown outdoors in May, in a situation well open to the sun, and they will flower and be a mass of color in July and continue until late autumn. Seeds may be sown in a hotbed in March and flowers be had in June.

Large-Flowering Tall Varieties

This is the finest type, having the largest heads of bloom as well as the largest individual flowers; of strong, sturdy growth, attaining a height of about 15 inches.

	Pkt.	$\frac{1}{4}$ oz.
Brilliant. Finest crimson.....	\$0 10	\$0 75
Chamois-Rose. Shell-pink.....	15	1 00
Rosea. Enchantress-pink.....	10	75
Scarlet. Rich scarlet.....	10	75
White. Pure white.....	10	75
Finest Tall Mixed.	10	60
Isabellina. Tea-rose-yellow.....	15	1 00

Large-Flowering Dwarf Varieties

This type resembles the tall sorts offered in size of blooms but the plants are dwarfed in habit.

	Pkt.	$\frac{1}{4}$ oz.
Chamois-Rose. Shell-pink.....	\$0 10	\$1 25
Defiance. Brilliant crimson.....	10	1 25
Fireball. Scarlet.....	10	1 25
Purple.	10	1 25
Snowball. Pure white.....	10	1 25
Surprise. Vermilion, white center.....	10	1 25
Finest Dwarf Mixed.	10	1 00
Star of Quedlinburg. Dwarf; star-shaped flowers; a novel variety. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.		

PETUNIA

The Petunias cannot be equaled by any other plants for outdoor decoration. Will flower the first season, even if sown in open ground, but usually not before June. These sown in the house or hotbed in April will bloom in June and be larger and finer plants. Half-hardy annual.

GIANT-FLOWERING FRINGED PETUNIAS

Under this heading we have listed the finest possible varieties of the now popular large-flowering Fringed Petunias. Whether desired for bedding, cutting or general display, the varieties listed are the best by test of the Fimbriata, or fringed large-flowering class.

	Pkt.	
Single Fringed White. Pure glistening white.....	\$0 25	
" " Yellow. Canary-yellow.....	25	
" " Rose. Brilliant rose.....	25	
" " Crimson. Dazzling crimson.....	25	

Single Fringed Mixed. A mixture of best fringed varieties including with the above many new colors and shades.....	\$0 25
Double Fringed Mixed. A superb mixture of the finest double-fringed varieties.....	50

SINGLE BEDDING VARIETIES

	Pkt.	
Balcony Blue. A splendid free-flowering type, either for bed- ding or window-boxes, vases, hanging-baskets, etc. Flowers average 3 inches across and are of a rich indigo-blue.....	\$0 25	
Balcony Rose. Brilliant rose-pink.....	25	
Balcony Red. Bright red.....	25	
Rosy Morn. Soft carmine-pink, white center.....	15	

Snowball. An excellent, compact variety, producing pure satiny white flowers throughout the entire season; very dwarf.	\$0 15
Howard's Star. Rich crimson with distinct white star in the center.....	10
Countess of Ellesmere. Dark rose, with fine white throat...	10
Special Bedding, Mixed. Select, bright colors....	$\frac{1}{4}$ oz. 40c..

SALPIGLOSSIS

Painted Tongue

Few annual flowers contribute such a wealth of bloom from summer until cut down by frost. It is only of recent years that American gardeners have become better acquainted with this delightful annual. As a cut-flower it has become highly prized. The funnel-shaped flowers, facing upward, revealing their exquisite markings of either gold or silver veins running through the groundwork of the flowers, and their orchid-like appearance, make them instant favorites.

For best results sow seed in a hotbed or sunny window, and when all danger of frost is past, place in the garden, allowing 8 inches between the plants.

Salpiglossis superbissima

Orchid-flowering

This orchid-flowering strain branches freely from the main stem, forming fine, spreading plants, flowering freely from all branches, making it invaluable for cutting. Pkt. $\frac{1}{2}$ oz.

Purplish Violet	\$0 10	\$1 00
Pink. Bright pink	10	1 00
Light Blue. Veined gold	10	1 00
Golden Yellow. Rich color	10	1 00
Scarlet. Rich color	10	1 00
Brown with Gold	10	1 00
Finest Mixed	10	75

SCARLET RUNNER VINE

This Bean produces a rapid-growing vine and makes clusters of showy scarlet flowers. Hardy annual. 15 feet high. Pkt. 10 cts.. oz. 20 cts.



Salpiglossis superbissima (Orchid-flowering)



Salvia splendens (Scarlet Sage)

SALVIA

One of our most handsome summer- and autumn-flowering plants, growing into compact bushes about 3 feet high and literally ablaze with brilliant flowers; very effective for massing on the lawn and for garden decorations. Half-hardy perennial.

Splendens (Scarlet Sage). Beautiful bright scarlet; 3 feet. Pkt. 10c., $\frac{1}{2}$ oz. 60 cts.

Bonfire (*Salvia splendens nana compacta erecta*). This variety, without question, is the finest Salvia for bedding yet introduced. The plants grow into very compact oval bushes, about 2½ feet high and produce long spikes of brilliant scarlet flowers. They stand out stiff and erect; over 200 spikes to a plant is not unusual, and the spikes bear from twenty to thirty flowers each. Gorgeous effects can be produced with the Bonfire Salvia massed on the lawn or in the garden, or planted in rows along a sunny drive, where the brilliant scarlet is simply dazzling. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.50, $\frac{1}{2}$ oz. \$2.50, oz. \$5.

Patens (Blue Sage). In color this is as blue as the "Scarlet Sage" is red; unlike the latter, however, it is not useful for bedding, but is a beautiful plant for the border or greenhouse; tender perennials. 2 feet. Pkt. 25 cts.

SCABIOSA

Mourning Bride; Pin-Cushion Flower; Sweet Scabious

These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. As a flower for cutting they are very popular. The various shades are extremely charming, but are equally well adapted for borders or beds, where they display themselves very effectively. Seeds should be sown any time in the spring after danger of frost is past.

Improved Double Large-Flowering

	Pkt.	$\frac{1}{2}$ oz.
Azule Fairy. Lavender-blue.....	\$0 10	\$0 50
Fiery Scarlet. Dazzling color.....	10	50
Flesh-color. Light pink.....	10	50
Cherry-Red. Rich red.....	10	50
King of the Blacks. Purplish black.....	10	50
White. Pure white.....	10	50
Tall Double-flowering, Mixed.....	10	40



Stumpp & Walter Co.'s Sweet Peas

SUMMER-FLOWERING SPENCER VARIETIES

Culture of Sweet Peas

Sow seed as soon as the ground can be worked in the spring. Dig a trench about a foot wide and deep, and fill in with 6 inches of well-rotted stable manure; tread down firmly and replace the good garden soil. Draw a single straight line in the middle of the prepared surface, about $\frac{3}{4}$ inch deep; sow seed at even distances of about 3 inches and cover. When the plants grow about 3 or 5 inches high, thin out, leaving the plants 6 inches from each other. (Experts who raise for exhibition thin out to one foot.)

The cutworm is one of the greatest enemies of Sweet Peas, attacking the young shoots just as they come up. At the first appearance of this pest, a good sprinkling of lime over the row sometimes helps to exterminate it. As soon as the vines reach a height of about 8 inches, proper trellis or other supports should be provided.

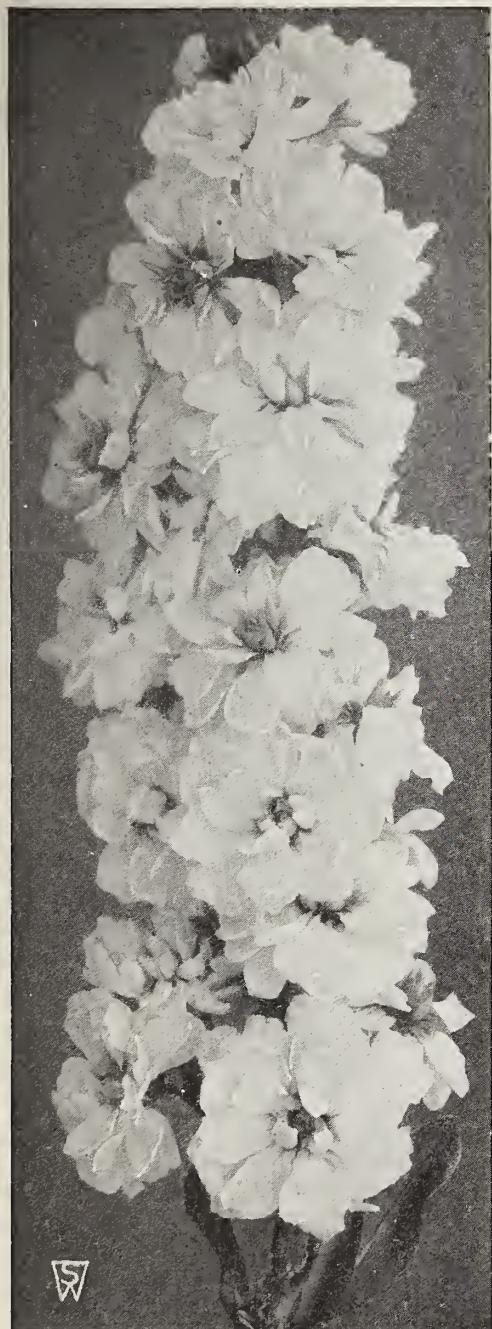
The Sweet Pea is a moisture-loving plant, and by the month of May the plants will require water. In order that the water may be retained by the soil and get to the roots, as well as to keep them cool, it is advisable to use a mulch of old stable manure and soak well with hose each or every other day, as needed.

	Pkt.	Oz.	Pkt.	Oz.	
Agricola. Pleasing shade of blush-pink, suffused rosy lilac.....	\$0 10	\$0 50	Illuminator. Glowing cerise-salmon; under artificial light the flowers appear to be a glowing orange-scarlet.	\$0 10	\$0 50
Blanche Ferry. A good bicolor; standards pink, wings white.....	10	40	Improved Margaret Atlee. Rich glowing rose-pink on a creamy ground. The flowers are of large size and nicely placed on long, graceful stems.....	15	75
Blue Monarch. Where a dark blue sort is desired we suggest this variety.....	10	50	King Edward. Still grown where a deep rich crimson is desired. Does not scorch or fade.....	10	50
Blue Picotee. White ground, edged pale blue.....	10	50	King White. Still holds the fort as being the finest pure glistening white.....	10	50
Constance Hinton. Still considered the finest black-seeded white.....	10	50	Royal Purple. Without a doubt this is the finest rich royal purple. A large-flowering variety, with many four-flowered sprays.....	10	50
Countess Spencer. An old favorite and while now superseded for exhibition, still a good bright pink.....	10	40	Tangerine. This variety has been appropriately named—a deep orange, almost approaching the colors of the tangerine orange. Flowers of great size and well waved.....	15	75
Dobie's Cream. Deep cream; still a winner at all Sweet Pea exhibitions on account of its splendid size and long stem.....	10	50	The President. A very brilliant orange-scarlet self. The variety throws many four-flowered sprays.....	10	50
Fiery Cross. A deep rich shade of orange-scarlet which has the appearance of live fire.....	10	50	Wedgwood. This variety is a good rich blue and was considered the best of its class until the introduction of Mrs. Tom Jones, which is brighter.....	10	50
Florence Nightingale. While now superseded in the lavender section it is still considered a fine color, the pink sheen making it still a charming variety.....	10	50			
Hercules. A magnificent, large, soft rose-pink self. Still a great favorite at Sweet Pea exhibitions.....	10	50			

GRAND PRIZE MIXTURE Giant Summer-flowering Sweet Peas

This is a combination of the best varieties of the Spencer Sweet Peas, and includes every described color and shade, good care being taken to have all the best varieties.

Packet.....	\$0 10
Ounce.....	25
Quarter-pound.....	85
Half-pound.....	1 50
Pound.....	2 50



S. & W. Co.'s Giant Perfection Stocks

THUNBERGIA (Black-Eyed Susan)

Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively for hanging-baskets, vases, low fences, etc. Very pretty flowers; buff, white, orange, etc. 4 feet.

Mixed Colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

TORENIA

Fournieri. A very fine annual; splendid for vases, hanging-baskets, borders, etc. Sky-blue flowers, with bright yellow center. Pkt. 10 cts.

STOCKS

These popular flowers are easily grown, and are so highly fragrant and of such great beauty, and have so many good qualities, that they deserve a place in every garden. They should be given good rich soil to grow in, and will amply reward good treatment with remarkably large pyramids of bloom. The flowers represent a great diversity of color. The Tall Perfection and Dwarf Bouquet Stocks are great improvements over the Gilliflowers of the olden times, the flowers being much larger and more densely double, and there is also a much larger variety of colors and shades than there used to be.

S. & W. Co.'s Improved Giant Perfection

These are an improvement on the variety offered as Ten-Weeks' Stock. Of splendid, pyramidal growth, freely branching from the main stem, giving an abundance of large spikes of double flowers from early summer until fall, and are used largely for cutting. 2 feet.

	Pkt.	$\frac{1}{4}$ oz.	Pkt.	$\frac{1}{4}$ oz.	
White.....	\$0 25	\$1 00	Light Blue.....	\$0 25	\$1 00
Chamois-Rose.....	25	1 00	Dark Blue.....	25	1 00
Fiery Crimson.....	25	1 00	Sulphur-Yellow.....	25	1 00
Purple.....	25	1 00	Mixed.....	25	1 00



S. & W. Co.'s
Mammoth Verbena

MAMMOTH VERBENAS

We have been carefully selecting and improving this fine strain of Verbenas for years, and can recommend it as the very best procurable. The trusses and individual flowers are of the largest size, of brilliant colors, free-blooming and of vigorous habit. For best and quickest results seed should be sown early in the house or hotbed, and transplanted to flowering quarters in May. If sown outdoors in May, it blooms from the end of July on. Verbenas are better grown from seed than from cuttings, being more vigorous and less liable to disease.

	Pkt.	Oz.
S. & W. Co.'s Mammoth Defiance. Scarlet.....	\$0 10	\$2 00
S. & W. Co.'s Mammoth Blue. Deep blue.....	10	2 00
S. & W. Co.'s Mammoth Pink. Deep pink.....	10	2 00
S. & W. Co.'s Mammoth White. Pure white.....	10	2 00
S. & W. Co.'s Mammoth Mixed. Finest colors.....	10	2 00

Lemon Verbena (*Aloysia citriodora*). Every garden should have a few plants of this fragrant favorite. Its pale green, delightfully scented foliage goes well with any flower. Pkt. 10 cts.

ZINNIA

Youth and Old Age

The seed may be sown in a hotbed or sunny window and transplanted, or sown later in the open ground. The plants come into flower early in the summer and keep on blooming until hard frost.

New Double Dahlia-Flowered

We are pleased to say that we have been able to secure Zinnia in separate colors this year. The plants are of the same vigorous habit as our Giant Double-flowering varieties listed in the color illustration on front cover. They attain the height of 3 feet, producing mammoth flowers averaging 6 inches across by 3 to 4 inches in depth, similar in shape to the decorative dahlia. We consider them a fitting companion to our strain of Giant Double-flowering Zinnias.

Canary Bird. Primrose.

Crimson Monarch. Largest of the red shades.

Exquisite. Light rose, center deep rose.

Golden State. Rich orange-yellow.

Meteor. Deep glowing red.

Polar Star. Large, pure white.

Old-Rose. Beautiful shades of old-rose.

Mixed. A mixture of all shades.

Each, pkt. 25 cts., 5 pkt. \$1

Giant Double-Flowering

Trials of this Zinnia sown in the open ground in April produced flowers 6 inches in diameter on plants 3 feet high. If sown in the open ground in April thin out as soon as the plants are well up, leaving at least 1½ feet each way, as they are robust growers, and require a large amount of space to attain maximum size. **The colors listed below are pure in tone.**

Shrimp-Pink

Buttercup

***Scarlet**

***Salmon**

***Yellow**

Purple

***Rose**

***Crimson**

White

Each, pkt. 25 cts., oz. \$2

COLLECTION: One packet each of colors marked * \$1

S. & W. Co.'s Giant Double-Flowering Mixed

S. & W. Co.'s Giant Double-flowering Mixed. We offer a well-prepared mixture of this greatly improved Zinnia and where our patrons are not desirous of growing them in separate colors, we suggest this mixture. Pkt. 25 cts., oz. \$2.

Dwarf Double-Flowering

This type of Zinnia, while not so tall as our Giant Double-flowering varieties offered above, is a very satisfactory type for borders or cutting. Grows about 1½ feet high; flowers perfect.

Crimson

Lemon-Yellow

White

Purple

Salmon-Rose

Golden

Scarlet

Mixed

Each, pkt. 15 cts., oz. \$1.50

Tall Double-Flowering Mixed

This Zinnia is similar in height and form of plant to our Giant Double-flowering except the flowers which are about two-thirds the size. Pkt. 10 cts., oz. \$1.

Various Zinnias

We offer below a selection of the various types of Zinnias, all of which, on account of the odd formation of the flowers, should be more generally cultivated.

Curled and Crested. The petals of this strain are curled and crested into the most fantastic and graceful forms. Our mixture includes all the brilliant shades. Pkt. 10 cts., ¼oz. 50c.

Picotee. The flowers of this new type are picoteed at the edge of the petals, with a color distinct from the body of the flower. Plants attain the height of 1½ feet and bear profusely. We offer them in a mixture of color. Pkt. 25 cts., 5 pkts. \$1.

Victory Quilled. This type of Zinnia has petals similar in form to the cactus-flowered Dahlia. The petals have a rather refined looking appearance and are very graceful. We offer them in a good mixture of color. Pkt. 25 cts., 5 pkts. \$1.

Zinnia, Lilliput

This variety forms a bush about 1 foot high, and is covered with small, very double flowers in profusion.

Finest Mixed. Pkt. 10 cts., ¼oz. 50 cts.



Double
Dahlia-Flowered
Zinnia

WALLFLOWER

These half-hardy perennial and annual Wallflowers are grown for early spring bedding and their delightful fragrance. Perennial sorts should be sown in autumn and carried over in coldframe; annual sorts may be sown indoors in March and will flower the first year from seed.

Early Parisian Annual. Golden, shaded orange-red. Pkt. 10 cts.

VIRGINIAN STOCKS

Sown early, these pretty annuals are gay in the period between the spring and summer flowers, their fresh, bright colors in lines and beds producing a charming effect. May be sown like sweet alyssum; excellent for the border. White, Rose, Crimson, or Mixed, pkt. 10 cts., oz. 60 cts.

Hardy Perennial Flowers

A select list of the finest and newest varieties of Hardy Perennial Flower Seeds will be found on the three following pages.

Hardy Perennial Flower Seeds

Perennials supply us with some of the most beautiful and interesting plants available for out-of-door culture. By judicious selection a succession of bloom may be obtained from spring until frost, with a wonderful range of color.

ACHILLEA

Ptarmica, The Pearl (Sneezewort). Hardy perennial. One of the best; bears a profusion of small, double, white flowers during the entire season. Fine for cutting. Height 2½ feet. Pkt. 25 cts., ¼oz. \$2.

ACONITUM (Monkshood, or Wolfsbane)

Napellus. A hardy perennial, growing in any good garden soil, producing long spikes of curiously shaped blue flowers. Well adapted for planting among shrubbery. Height 3 to 5 feet. Pkt. 10 cts., ¼oz. 35 cts.

Finest Mixed. All colors. Pkt. 10 cts., ¼oz. 25 cts.

ALYSSUM

Saxatile compactum. Hardy perennial. Excellent rock or border plant, bearing bright yellow flowers from April to June. Height 9 inches. Pkt. 15 cts., oz. \$1.50.

AQUILEGIA (Columbine)

The Aquilegias are fine, free-flowering, hardy border plants. Seed may be planted in the open ground early in the spring, and will, in the case of single varieties, bloom the same season. Best results are obtained by planting in August, when they will come up early in the spring, making vigorous plants, blooming during late spring and early summer.

Giant Long-spurred, Mixed. A very excellent mixture of Columbines, comprising new and pleasing shades and combinations, effective and striking in the individual flowers, in many shades of lavender, blue, mauve, white, yellow, orange, scarlet, and bright rose-pink. Pkt. 25 cts., 5 pkts. \$1.



Border of Alyssum

BELLIS (English Daisy)

A favorite perennial, which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown any time from spring until August. For best results, new plants should be raised from seed each year. The following are the finest double-flowering kinds, selected after careful test.

	Pkt.
Giant-flowering White	\$0 25
“ “ Pink.....	25
“ “ Mixed.....	25

COREOPSIS

The Perennial Calliopsis is usually sown in June and transplanted 1½ to 2 feet apart. Give slight winter covering. May be had in flower the first year if sown under glass in January.

Grandiflora. Deep golden yellow, cup-shaped flowers, on fine stems for cutting. Height 2 feet. All summer. Pkt. 10 cts., ¼oz. 40 cts.

CAMPANULA OR BLUEBELLS

These are among our best-known hardy perennials. The tall varieties are fine for cutting, while the dwarf sorts make excellent border plants. All have dainty bell-shaped flowers. Some of the varieties offered will flower the first season from seed if sown early.

Pyramidalis (Chimney Bellflower). Spikes 3 to 4 feet tall; erect, pyramidal Pkt. ¼oz. flowers, large and of beautiful blue. Splendid for both garden and pot culture..... \$0 15 \$0 75

Pyramidalis, White..... 15 75

CAMPANULA MEDIUM (Canterbury Bells)

These are strictly biennials, and require to be sown from June 1 to September 1; when strong enough, transplant to a distance of 6 inches apart; after frost has set in, protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them.

Double Mixed. Pkt. 15 cts., ¼oz. 75 cts.

Single Mixed. Pkt. 15 cts., ¼oz. 50 cts.

CAMPANULA CALYCANTHEMA (Cup-and-Saucer)

These produce beautiful, large, single flowers resembling a cup and saucer; they require the same treatment as *Campanula Medium*.

	Pkt.	¼oz.		Pkt.	¼oz.	
Blue	\$0 15	\$1 00		Rose	\$0 15	\$1 00
White	15	1 00		Striped	15	1 00

Mixed.....

10 75

PERENNIAL CANDYTUFT

A very early-flowering variety, largely used in the hardy border. Foliage exceedingly pleasing in color and very decorative.

Gibraltarica. White, shaded pink. Pkt. 15 cts., oz. \$3.



Long-spurred Aquilegias



Delphinium (Gold Medal Hybrids)

DELPHINIUM (Perennial Larkspur)

There is, perhaps, no better known hardy plant than the Delphinium. The beautiful flowers, borne on tall, stately spikes, are a gorgeous sight and a charm to the garden. Sow seeds in early spring in shallow boxes indoors or in a hotbed. When seedlings are about 1 inch high, transplant to flats 3 to 4 inches apart each way. About a week before planting out, remove to the open, taking care to protect them on cold days and nights; set out 6 inches apart in the garden. Plants treated thus usually flower the first season, during August. In the fall they may be lifted and set out in groups of colors, three or four plants at a distance of 3 feet apart, in the rear of hardy perennials, where they make a fitting background.

Gold Medal Hybrids. This splendid strain is of strong, vigorous habit, with immense spikes from 2 to 3 feet long, of large flowers mostly in fine shades of light blue. We doubt very much if this wonderful strain can be surpassed, and recommend that all our patrons desirous of obtaining some choice plants grow these hybrids. Pkt. 25 cts., 5 pkts. \$1.

Belladonna (Everblooming Hardy Larkspur). One of the finest and most continuous-blooming hardy Larkspurs. Clear turquoise-blue flowers, unequaled for delicacy and beauty. Pkt. 25 cts., 5 pkts. \$1.

Formosum. Large; rich dark blue, white center; borne on spikes 2 to 3 feet tall; one of the most popular varieties. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1.

HARDY GARDEN PINKS

These form low, bushy, tufted plants, above which are produced, on long stems, the beautiful fringed and fragrant flowers so valued in "old-fashioned" gardens. For permanent beds and borders these Pinks are unrivaled.

Pkt.

Plumarius, Double Mixed. Fringed, fragrant flowers of white, crimson, or purple shades, spotted and variegated. Height, 1 foot. \$0 10

Plumarius, Single Mixed. Large, fragrant flowers of beautiful colors and finely fringed. 10

Scotch, or Florists' Pinks. Excellent perennial garden plants, about 1 foot high when in bloom. They are vigorous, very hardy, and flower profusely during spring and early summer. The flowers are very large, very double, beautifully fringed, and emit a grateful clover-like perfume. Mixed colors. 25

GYPSOPHILA (Baby's Breath)

Pretty, free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut-flowers.

Paniculata. White flowers; fine for bouquets; one of the favorite hardy perennials; blooms first year if sown early. 2 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1.

Paniculata fl.-pl. The new double-flowering Baby's Breath, and one of the finest hardy plants for cutting. Pkt. 25 cts., 5 pkts. \$1.

DIGITALIS (Foxglove)

This ornamental hardy plant is used extensively for naturalizing in shrubbery borders and along the edges of woods. It grows well under almost all conditions, giving a wealth of bloom during June and July.

Gloxiniæflora. This is an improved strain of the ordinary Foxglove, *D. purpurea*, with handsome spotted Gloxinia-like flowers on long spikes.

Alba. White ground. **Rosea.** Rose ground. **Mixed.**
Purpurea. Purple ground. **Lutea.** Yellow ground.
Each, pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.

Monstrosa (Mammoth Foxglove). Long spikes surmounted by one enormous flower; all colors mixed. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.

GAILLARDIA (Blanket Flower)

The perennial varieties of this family are grown in most hardy borders. They thrive in any position or soil, require little or no protection, and take care of themselves. If sown early, they begin flowering in July, and continue to be a mass of bloom until cut down by frost; fine for cutting. Height, 2 feet.

S. & W. Co.'s Hybrids. This strain of Hybrid Gaillardia has been obtained from a specialist who has developed a splendid type, covering only the best varieties. The flowers are as large as sunflowers. Pkt. 25 cts., 5 pkts. \$1.



Gaillardia (S. & W. Co.'s Hybrids)



Chater's Superb Double Hollyhocks

LATHYRUS

Everlasting or Hardy Sweet Pea

Hardy climbers, growing 6 to 8 feet high when trained on a trellis. The flowers are borne in large clusters. They are peculiarly adapted to rough places, to scramble over rocks and bushes; splendid cut-flower.

White. Pkt. 10 cts. **Red.** Pkt. 10 cts.

Delicata. Rosy flesh-color. **Mixed Colors.** Pkt. 10 cts.

Pkt. 10 cts.

LUPINUS (Lupine)

Pkt. Oz.

Polyphyllus, White.....	\$0	10	\$0	75
Polyphyllus, Blue.....		10		75
Polyphyllus, Mixed.....		10		75

MYOSOTIS (Forget-me-not)

See page 34

GIANT PANSIES.

See page 36

HARDY PHLOX

Large-flowering Hybrids, Tall Mixed.....	\$0	15
Large-flowering Hybrids, Dwarf Mixed.....		15
Large-flowering Red Shades, Mixed.....		25

HOLLYHOCKS

One of the most popular of hardy garden plants. The beautiful color effects produced by the planting of these flowers, combined with their dignified and stately appearance, render them indispensable for either the old-fashioned garden or the well-planned herbaceous border. As a background for other flowers or planting among shrubbery, they are without an equal. As the plants are affected with rust occasionally, we recommend frequent spraying in springtime with bordeaux mixture.

Chater's Superb Double

Cerise	Crimson	Flesh-color
Lilac	Pink	Primrose
Scarlet	White	Yellow
	Mixed	

Each, pkt. 25 cts., 5 pkts. \$1

Chater's Superb Single

Many prefer the single-flowering Hollyhocks, and we have arranged to procure the same well-known strain in the following single varieties:

Pink	Purple	Primrose
Scarlet	White	Yellow
	Mixed	

Each, pkt. 25 cts., 5 pkts. \$1

HIBISCUS

Marshmallow

Showy, ornamental plants, for mixed beds or shrubbery borders. Hardy perennial, but will bloom first year from seed if sown early.

Palustris. Large pink flowers. Pkt. 10 cts.

Crimson Eye. Fine for borders and groups; color white, with crimson center; flowers very large. Pkt. 10 cts.

PERENNIAL POPPIES

Like the annual Poppies, these should be sown as early in the spring as the ground can be worked. The plants disappear during July and August, appearing again when the weather becomes cool. When this fall growth starts they should be transplanted to their permanent flowering quarters. It is well to mark the places they are planted, to insure the roots against disturbance during their annual resting period.

Oriente, Finest Mixed. Pkt. 10 cts.

Iceland, Finest Mixed. Pkt. 15 cts.

HARDY PRIMROSES

These are among the best of the early spring-blooming plants. With a slight protection they will stand the winter, but will do better if protected by a cold frame.

Vulgaris (English Primrose). Canary-yellow; fragrant. Pkt. 15 cts.

PYRETHRUM

S. & W. Co.'s Single Hybrids. Our strain of this beautiful hardy perennial has been grown specially in England for us by a specialist of this flower. The cosmos-like flowers range in color from the palest pinks to deep red, the bright yellow centers forming a splendid contrast. Blooming as they do during May and June and again in the fall, and on account of their long-lasting and utility as a cut-flower, we recommend them highly to our patrons. Pkt. 25 cts., 5 pkts. \$1.

S. & W. Co.'s Double Hybrids. Colors and character of plants similar to the above, except that centers are tufted, somewhat resembling a double China aster. Pkt. 25 cts., 5 pkts. \$1.

SWEET WILLIAM

Dianthus barbatus

A well-known, attractive biennial which flowers the second season from seed. Sow outdoors in May, and transplant in August.

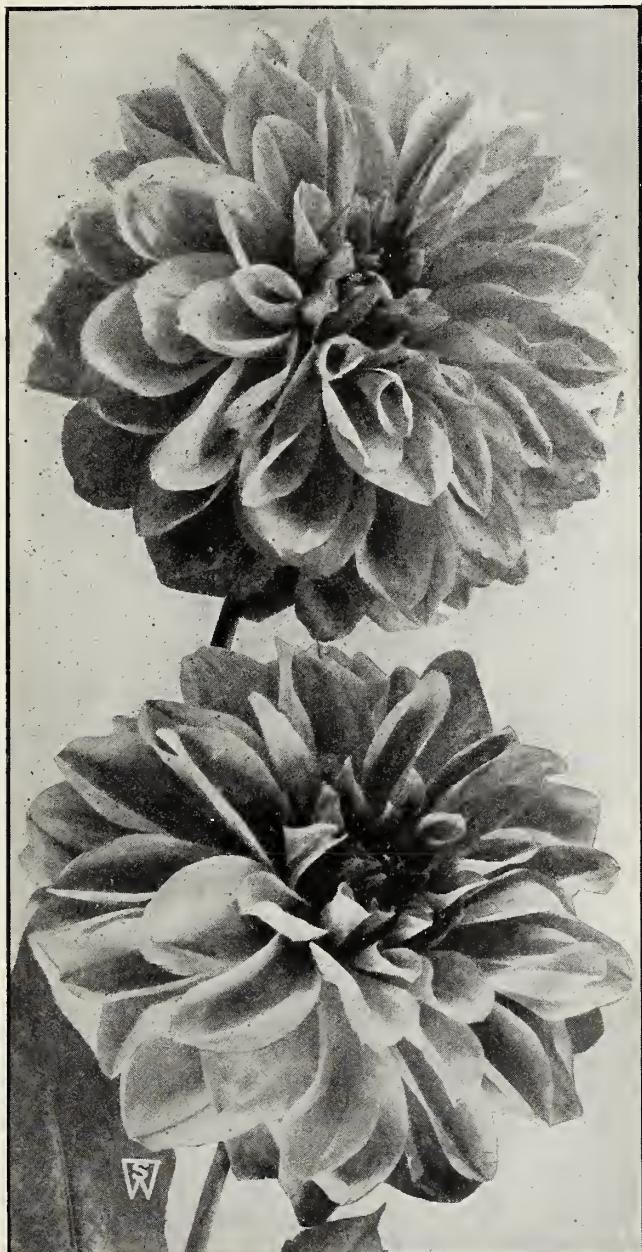
Double Finest Mixed. Pkt. 10 cts.

Single Finest Mixed. Pkt. 10 cts.

Newport Pink. A distinct new color which originated in one of the famous gardens at Newport, R. I. In color it is what florists call water-melon-pink or salmon-rose; strikingly brilliant and beautiful. The flowers are borne in massive heads, on stems 18 inches high. For midseason mass bedding it has no equal. It is also very effective for cutting. Pkt. 15 cts., 2 pkts. 25 cts.

SELECT GARDEN DAHLIAS

We have listed below our selection of a choice list of varieties of garden Dahlias, some of which were listed under our new and rare varieties of previous years and which on account of larger stocks may be obtained at more moderate prices.



Dahlia, Dream

Bianca. (Hybrid Cactus.) Its coloring is a beautiful rose-lilac with a shading of white and a blending of yellow at base of each petal. \$1 each, \$10 per doz.

Break o'Day. (Decorative.) A delicate clear sulphur-yellow, tinting to sulphur-white at the tips. The petals are of great substance, illuminated by a satiny sheen, giving the flowers a waxy appearance. \$1 each, \$10 per doz.

Clara Seaton. (Show.) Very large, yellow, suffused golden buff; and quilled petals. 75 cts. each, \$7.50 per doz.

Copper. (Decorative.) Broad, fluffy, twisted petals of a beautiful copper shade, tinted with bronze and apricot; large flower on stiff stem. \$1 each, \$10 per doz.

Dream. (Giant Decorative.) A very beautiful shade of salmon, blending to amber. The plants are tall and healthy growers, producing their blossoms on strong, stiff stems, well above the foliage. This variety was considerably admired where exhibited at the Dahlia shows this past season. \$1 each, \$10 per doz.

F. W. Fellowes. (Cactus.) In color it is an intense coral-red with deeper suffusion toward the center. A leader in this type at all Dahlia exhibitions or for the garden. Excellent as a cut-flower. \$1 each, \$10 per doz.

King Albert. (Peony.) A giant dark violet-purple. Tall plants and long strong stems. One of the best purples. \$1 each, \$10 per doz.

Mrs. Edna Spencer. (Cactus.) An exceptionally fine variety for all purposes. Large, fine form, and, above all, a free bloomer, on long, erect stems. Color silvery lilac, shading to bright orchid-pink. \$1 each, \$10 per doz.

Patrick O'Mara. (Decorative.) An unusually soft and pleasing shade of orange-buff, slightly tinged Paul Neyron rose. Good keeping qualities. \$1 each, \$10 per doz.

Pierrot. (Cactus.) The flowers are exquisite in form, composed of very long, tubular, narrow petals, which are of a deep amber color, sometimes showing white tips. \$1 each, \$10 per doz.

Pride of California. (Giant Decorative.) The flowers are of large size, perfect in form, and of a glowing cardinal-red. The finest of the dark rich crimson decorative Dahlias for all purposes. \$1 each, \$10 per doz.

Queen Elizabeth. (Peony.) Splendid rosy mauve; strong stems, clean bushes. \$1 each, \$10 per doz.

STANDARD DECORATIVES

The following varieties are a very select list of good Decorative Dahlias for garden culture. They are all free bloomers and excellent for cutting.

Albert Manda. Very large; white, suffused primrose and rose. 50 cts. each, \$5 per doz.

Berch van Heemstede. Pure yellow, suffused a golden bronze; petals beautifully twisted and whorled, large and fine. 50 cts. each, \$5 per doz.

F. C. Burns. Flowers of very large size on strong, erect stems; color shell-pink. In habit one of the best. 50 cts. each, \$5 per doz.

Miss Minnie McCullough. One of the best cut-flower Dahlias. Beautiful canary-yellow flowers of large size, on strong stems. 35 cts. each, \$3.50 per doz.

Purity. (Decorative.) A lovely white Dahlia; of fine form; free bloomer. 50 cts. each, \$5 per doz.

Souv. de Gustave Doazon. This variety is a good comparison to the sunflower. It is the largest Dahlia in existence, and the color is a pleasing shade of red. The flowers are full to the center, and often measure 9 inches and over in diameter, and can be forced to measure 12 inches. 35 cts. each, \$3.50 per doz.

PEONY-FLOWERED DAHLIAS

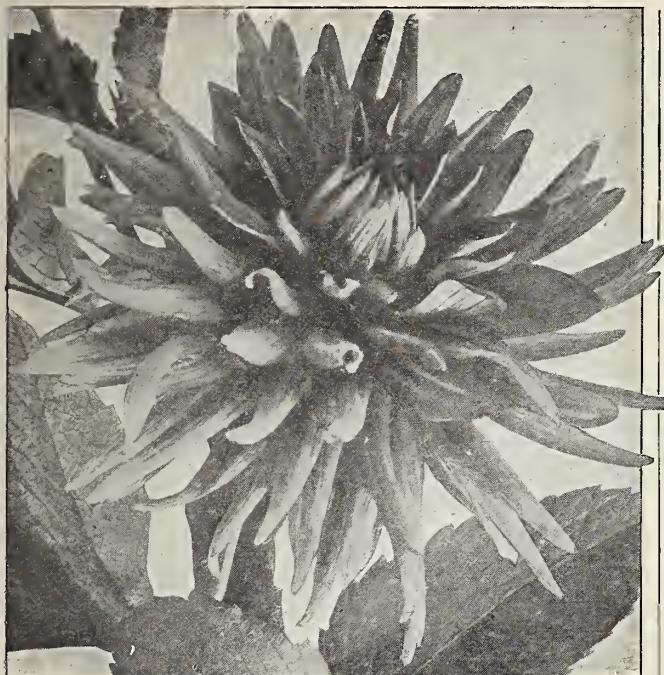
Avalanche. Pure white. Considered the finest white peony-flowered Dahlia. A very free-flowering variety, with splendidly formed flowers held erect above the foliage. 50 cts. each, \$5 per doz.

Diemant van Bijstean. A variety imported from Holland, and one we can highly recommend. It is a very distinct and new shade—lilac-blue throughout. The plants are tall and sturdy growers, holding the blooms well above the foliage. 50 cts. each, \$5 per doz.

Golden Rose. An attractive shade of yellow suffused rose, each petal having a distinct picotee edge of rose. Good long stems; fine bloomer. 50 cts. each, \$5 per doz.

Hampton Court. Extra-large flower of bright deep pink, with yellow center. 50 cts. each, \$5 per doz.

Lady Alla. Large flowers of bright scarlet, on long, strong stems, well above the foliage. A good keeper. 50 cts. each, \$5 per doz.



Cactus Dahlia, Countess of Lonsdale

SELECT CACTUS DAHLIAS

This is a selection made with a view to supplying the amateur with an assortment of Cactus Dahlias which may be depended upon for an early and continuous display in the garden and at the same time an abundance of flowers for cutting. **We offer strong tubers of the following:**

Countess of Lonsdale. The best-known and most desired of all the Cactus Dahlias. It is of the older Hybrid Cactus type, with broad, straight-pointed petals and is a very abundant and continuous bloomer. If only one Cactus Dahlia could be had, ninety-nine people out of a hundred would select this one. A deep salmon-red in color. 35 cts. each, \$3.50 per doz.

Golden West. An abundant bloomer with large yellow flowers that stand well up on stem. 50 cts. each, \$5 per doz.

Marguerite Bouchon. Unquestionably the finest pink Cactus Dahlia to date, and a general favorite. In color, the sweetest rose-pink imaginable, blending to white at the center. A very good Dahlia for all purposes. 75 cts. each, \$7.50 per doz.

Perle de Lyon. The fringed or notched petals of this beautiful pure white Hybrid Cactus add greatly to its appearance and make it a most desirable sort to grow. 35 cts. each, \$3.50 per doz.

CHOICE DOUBLE DAHLIAS

A. D. Livoni. Beautiful, soft pink, well-formed flowers with long stems. The blooms are perfectly round, ball-shaped, each petal being very tightly quilled and arranged in exact regularity. Free-flowering and very abundant bloomer. 25 cts. each, \$2.50 per doz.

Golden Age. Sulphur-yellow, similar in shape and habit to A. D. Livoni. 25 cts. each, \$2.50 per doz.

Johan Doehler. A magnificent variety of very large size in a very attractive combination of colors—buff, striped, and speckled crimson. A good bloomer and desirable for garden and cut-flower purposes. 25 cts. each, \$2.50 per doz.

Norma. Flowers are large, perfectly quilled, and of the most exquisite shade of live bright orange. 35 cts. each, \$3.50 per doz.

Robert Broomfield. A very good pure white, similar in shape and habit to A. D. Livoni. 25 cts. each, \$2.50 per doz.

DAHLIAS UNDER COLOR

White	Pink	Red	Yellow
25 cts. each, \$2.50 per doz.			

CALADIUM ESCULENTUM

Elephant's Ear

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. Very frequently used as border plants about suburban residences, where their large, rich green leaves afford an excellent embellishment when contrasted with the colors of the dwellings. Leaves often measure 3 to 4 feet long and 2½ feet wide. Bulbs do best if planted outdoors in this latitude about June 1.

First-size Bulbs. 20 cts. each, \$2 per doz., \$10 per 100.

Mammoth-size Bulbs. 40 cts. each, \$4 per doz., \$30 per 100.

MADEIRA VINE

Climbing Mignonette

A beautiful and popular vine, covering a large space in a short time. Fleshy heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delightful fragrance. Protect with litter in this latitude. 15 cts. each, \$1.50 per doz., \$10 per 100; by mail, 15 cts. per doz. extra.

CINNAMON VINE

Dioscorea Batatas

A beautiful, rapid-growing summer climber, with bright green, glossy foliage, and spikes of deliciously cinnamon-scented, white flowers. It is perfectly hardy, the stem dying down in winter, but growing with great rapidity in the spring, so as to cover any trellis or arbor very early in the season. Large, select roots, 15 cts. each, \$1.25 per doz., \$9 per 100.



Caladium esculentum

GLADIOLI

Everybody's Flowers Because Everybody Can Grow Them

Culture.—Any good garden soil will grow Gladioli well, provided they are planted in a sunny location. Bulbs should be planted 4 inches deep and at least 6 inches apart; frequent cultivation with a hoe or weeder, around the base of the plant, to prevent the soil from becoming hard or cakey, is advisable. Where desired for garden decoration or exhibition, we advise plants being staked after attaining the height of 1 foot. (We offer light green dyed bamboo canes, which are excellent for this purpose.) Water copiously, and as the flower-buds begin to form, apply liquid manure for the best results.

America. Delicate lavender-pink flowers of large size, borne on strong stems, and well placed; splendid habit. Very popular cut-flower variety. 10 cts. each, 75 cts. per doz., \$5 per 100.

Baron Hulot. Rich, royal violet-blue. One of the finest of its color. Flowers are medium in size, well placed, and borne on strong spikes. A variety used for contrasting with the pale and deep yellow sorts. 15 cts. each, \$1.50 per doz., \$10 per 100.

Empress of India. Flowers are a rare shade of rich, dark brown-red—the deepest of its color offered by us. They are large in size, of good substance, and borne on strong, stiff spikes. 15 cts. each, \$1.50 per doz., \$10 per 100.

Gretchen Zang. A beautiful rose tone of pink, blending toward scarlet on the lower petals. A variety of great merit on account of its splendid substance and size. 15 cts. each, \$1.25 per doz., \$8 per 100.

Halley. A variety that is largely grown on account of its earliness. The flowers are large in size, of beautiful salmon-pink, with creamy white blotch in throat. One of the earliest-blooming varieties in our list. 10 cts. each, 75 cts. per doz., \$5 per 100.

Mary Fennel. A beautiful shade of deep lavender, with petals penciled primrose. Flowers are large in size, borne on spikes medium in height. An excellent variety for contrasting with pale pink and primrose sorts. 20 cts. each, \$2 per doz., \$15 per 100.

Mary Pickford. An extraordinary flower and spike of a most delicate creamy white. Throat finest soft sulphur-yellow; stem and calyx also white. 20 cts. each, \$2 per doz., \$15 per 100.

Mrs. Francis King. Brilliant flamingo-pink, blazed with vermillion-red. Popular variety on account of its attractive color. Splendid for mass effects. Flowers are large in size, well placed on strong, tall spikes. 10 cts. each, 75 cts. per doz., \$5 per 100.

Mrs. Frank Pendleton. Salmon-pink which extends to reverse side of the petals as well as in the center, with a rich, deep maroon blotch on the three lower petals. Flowers are wide open and well placed on strong spikes. A variety that has become very popular since its introduction some years ago and now can be obtained at a more moderate price. 15 cts. each, \$1.25 per doz., \$8 per 100.

Mrs. Dr. Norton. Delicate cream and pink, deepening towards the edges; sulphur-yellow center. Flowers widely expanded. A very beautiful variety and much admired at Gladiolus exhibitions. 20 cts. each, \$2 per doz., \$15 per 100.

Mrs. Watt. This variety is perhaps best described as a rich deep American Beauty shade of red. 15 cts. each, \$1.25 per doz., \$8 per 100.

Niagara. Soft primrose, faint lines of lilac in the throat, with purple stamens and pale carmine stigmas which add to the attractiveness of the variety. Flowers are large in size, borne on tall spikes. 15 cts. each, \$1.25 per doz., \$8 per 100.

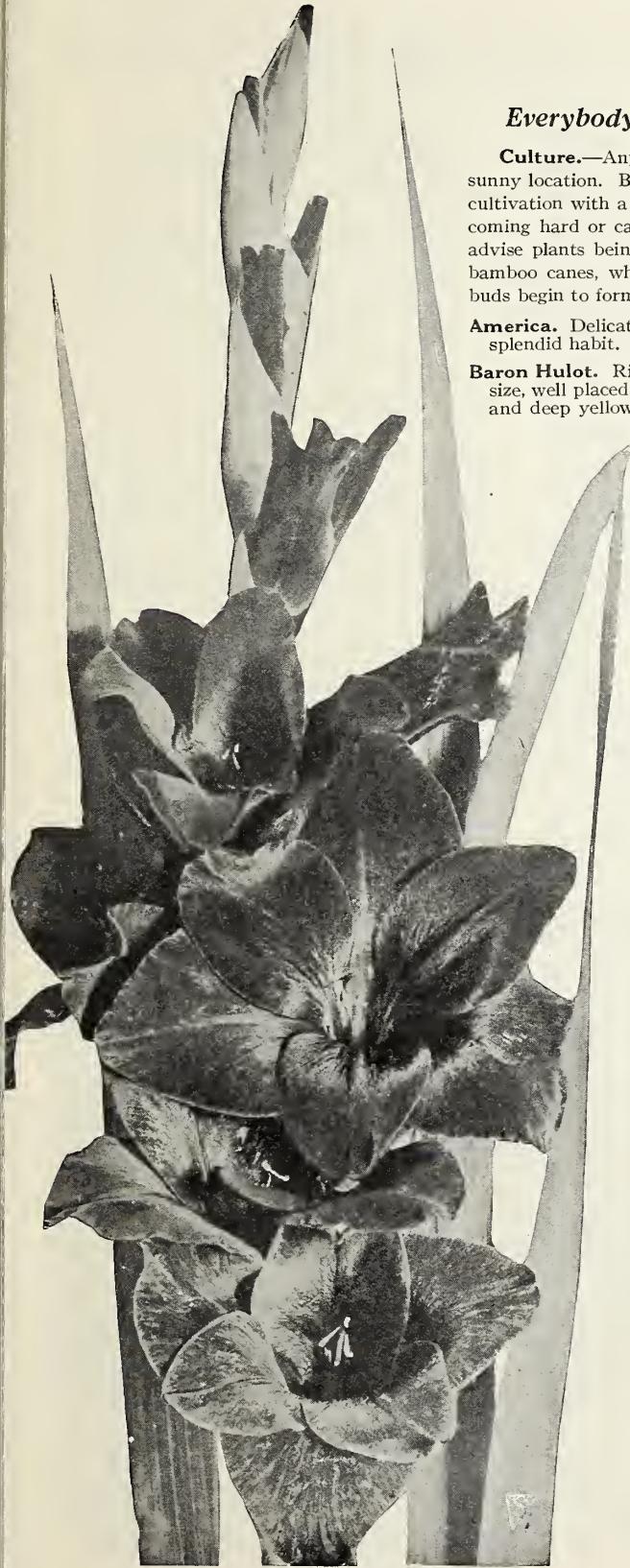
Panama. Similar in type to America, but of a deeper shade of pure rose-pink. The flowers are large in size and well placed on tall, strong spikes. 15 cts. each, \$1.25 per doz., \$9 per 100.

Peace. Few varieties have become as popular as Peace. The general effect of the flower is white, with a pale lilac feathering on the interior petals. They are large in size, well placed, and are borne on tall, strong spikes. 10 cts. each, \$1 per doz., \$7.50 per 100.

Schwaben. Pure canary-yellow, with a carmine blotch deep in the throat which aids in detracting from its uniformity in color. Flowers are wide open, large in size and well placed on strong spikes of medium height. 15 cts. each, \$1.25 per doz., \$8 per 100.

War. (Originator's stock.) The finest of its color yet introduced. Flowers often measure 7 inches across, of a deep ox-blood-red, shaded crimson-black. The flowers are well placed on spikes frequently attaining a height of 5 or 6 feet. The foliage is broad, deep green, almost as heavy as an iris leaf. A wonderful variety that can now be had at a reasonable price. 15 cts. each, \$1.50 per doz., \$19 per 100.

White Glory. A gorgeous pure white variety of the same type as Glory. The flowers are exquisitely shaped, splendidly ruffled, of pure white color with a lovely iris-blue throat. 35 cts. each, \$3.50 per doz., \$25 per 100.



Gladiolus, War

S. & W. Co.'s Famous Gladioli in Mixtures

S. & W. CO.'S MIXTURE OF AMERICAN HYBRIDS

In preparing this mixture of Gladioli, some surplus named sorts, we have endeavored to cover all the conceivable colors that can be obtained in this beautiful family of flowers. The mixture is prepared from the finest named as well as seedling sorts, and has with it a popular price so as to encourage the liberal planting of them. The varieties used in the mixture are varieties of matured good growers and are excellent for cut-flower purposes or for planting in mixed borders, and we offer them at 6c. per doz., \$4.50 per 100, \$40 per 1,000.

S. & W. CO.'S NEW PRIMULINUS HYBRIDS

When the original Primulinus was first grown in this country, many Gladiolus-growers were impressed with the graceful habit of the plant and flowers. They were small and somewhat hooded. The original species, as they were first introduced from South Africa, created interest among these growers mainly for their habit and the beautiful colorings of the flowers. They proceeded to cross them with the finest of the large-flowering Gladioli and the resultant crosses brought forth a really beautiful acquisition. The flowers were larger, more open, retaining their graceful placement on the spikes and also their beautiful range of artistic colors. Our hybrids range in color from pale sulphur-yellow-apricot to the deepest chrome-yellow and excellent shades of orange as well. We are pleased to offer this splendid mixture and suggest that our patrons try some, as for artistic decorations these flowers borne on long slender spikes are wonderful. 80 cts. per doz., \$6 per 100, \$55 per 1,000.



Gladioli are excellent for the garden border

CHOICE CANNAS (DORMANT ROOTS)

The wonderful size of flowers, depth of coloring, and graceful habit of plants in the modern Canna have greatly increased its usefulness to the garden-lover. It is much to be regretted that we occasionally observe mass plantings at railroad terminals and at some of our public institutions of the old Indian Shot. The modern Cannas we offer on this page are so far superior in every way that we feel certain that in a few years they will not only be used extensively for mass planting in beds, but will also be used in hardy borders, particularly for their foliage and color effect.

Dormant roots of Cannas should be potted in 4- or 5-inch pots or planted in shallow boxes in March or April, and kept in a warm place to start them into growth. The started plants may be planted out about May 10 to June 1 in the vicinity of Baltimore; earlier in the South and later in the North. They should be set about 2 feet apart.

Six Good Standard Varieties

Eureka. Canna hybridizers have worked patiently ever since the time of the introduction of the modern Canna, which bears such little relation as regards beauty of foliage and size of flowers to the old Indian Shot of bygone days, to produce a pure white. In offering Eureka we feel that our patrons will be using the best all-round white variety for general mass planting or bedding. Height 4 feet.

Express. A scarlet-flowering Canna of great brilliance of color. It is of dwarf, compact habit and the foliage is a deep shade of green. Its very dwarf habit makes it an excellent Canna for border planting. Height 3 feet.

Hungaria. The ideal pink bedder. Flowers large, in good trusses; color not unlike that of Paul Neyron rose. One of the best of the newer introductions and without a doubt one of the finest pink bedding Cannas as yet introduced. Height 3½ feet.

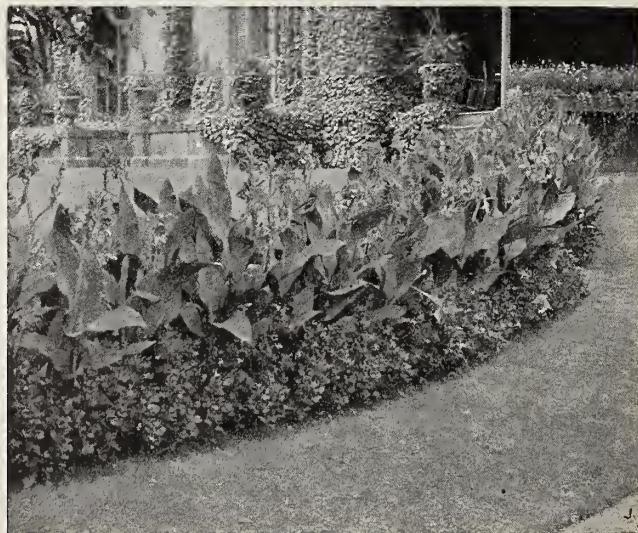
King Humbert. Of superlative beauty and by far the finest of all bronze-leaved Cannas. The enormous trusses are made up of flowers that measure 6 inches across, and are a rich salmon-scarlet, distinctly and numerously flecked with deep crimson markings. It is a free bloomer, and with its rich, coppery bronze, massive foliage, it produces an effect both bold and striking. Height 5 feet.

Richard Wallace. While this variety is not new, it still remains among the best of the canary-yellow sorts. The habit of the plant is excellent. The flowers are very large and are borne gracefully above the foliage. Height 4½ feet.

Yellow King Humbert. A sport of that most popular of all Cannas, King Humbert, producing large and most beautiful shades of yellow, lightly spotted red, with green foliage, five or six clusters of flowers at a time. Height 5 feet.

Choice Roots of any of the above varieties, 20 cts. each, \$2 per doz.

COLLECTION: One each of the 6 varieties, \$1



Border of Cannas

HARDY LILIES

Lilium auratum

Golden-rayed Lily of Japan

The flowers are pure white, thickly studded with crimson spots, while through the center of each petal runs a clear golden band. Fully expanded, the flowers measure nearly a foot across, are produced abundantly from July to September, and possess a most delicious fragrance. 3 to 5 feet.

Each Doz.	100
9-in. to 11-in. bulbs.....	\$0 45 \$4 50 \$35 00

Lilium speciosum magnificum

Oriental Orchids

Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bordered with deep pinkish crimson. A much superior variety to the Roseum, Rubrum or Melpomene of the Speciosum type. For the border, among hardy plants or naturalized among rhododendrons, this is an equal favorite with the handsome *Lilium auratum* offered above. Splendid for pot culture as well. Blooms outside during August. Each Doz. 100

9-in. to 11-in. bulbs.....	\$0 45 \$4 50 \$35 00
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Lilium speciosum album

The White Speciosum, which is usually grown with Magnificum and *Lilium auratum*, is a very dainty Lily. It flowers outside in the border or among rhododendrons at the same time as Auratum and Magnificum, and is one of the most extensively cultivated varieties. Each Doz. 100

8-in. to 9-in. bulbs.....	\$0 35 \$3 50 \$25 00
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Lilium Henryi

The Yellow Speciosum

A new and very beautiful hardy Lily from northern China. The plants are of vigorous growth, frequently attaining the height of 6 feet. This Lily is noted for its graceful habit and is an unusually excellent bloomer. It is thoroughly hardy, and, when well established, will increase rapidly. Color rich golden yellow, lightly spotted with brown, and in shape quite resembles the Speciosum types. Flowers during August. Choice bulbs, 75 cts. each, \$7.50 per doz., \$60 per 100.



Lilium auratum (Golden-rayed Lily of Japan)

TUBEROSES

One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed; and for a succession they can be planted at intervals as late as July. For flowering in the open border, plant about the middle of May, or as soon as the ground becomes warm. **We accept orders to be booked for fall delivery from our patrons who wish to grow bulbs in their greenhouses during the winter months.**

Excelsior Double Pearl. We offer two sizes of this popular bulbous plant. **First Size Selected Bulbs,** 10 cts. each, \$1 per doz., \$6 per 100; **Mammoth Bulbs,** 15 cts. each, \$1.50 per doz., \$10 per 100.



Tuberous-rooted Begonias

BEGONIAS TUBEROUS-ROOTED

A popular method of culture adopted by most amateurs is to provide a pan or box, and cover bottom surface to the depth of say one inch or two with sphagnum moss, placing the bulb immediately on top and then covering with still another layer of sphagnum moss. They should be kept moist and moderately warm. Plant in pots in a light but finely sifted soil, about one inch below the surface, and water cautiously until plant has shown considerable growth, then increase the amount. Good drainage is essential. A finely developed plant might consist of three bulbs planted in a 7-inch pot.

Single-Flowering Varieties

White	Yellow	Pink	Scarlet
-------	--------	------	---------

35 cts. each, \$3.50 per doz., \$25 per 100. Select mixture of all sorts, equal proportions, 30 cts. each, \$3 per doz., \$22.50 per 100

Double-Flowering Varieties

White	Yellow	Pink	Scarlet
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40 cts. each, \$4 per doz., \$30 per 100. Select mixture of all sorts, equal proportions, 35 cts. each, \$3.50 per doz., \$25 per 100

HYBRID TEA ROSES

Our Roses are all American-grown, two-year-old stock. They are budded or grafted, and while some planters prefer stock grown on their own roots on account of the liability of budded plants to throw up suckers, this will rarely occur if deep plantings are made, and if a wild shoot should appear, it is readily distinguished by the most casual observer, and should be removed close to the root. Budded plants are more vigorous, produce finer blooms, come to bearing sooner, and are equally as permanent and hardy as those on their own roots, and many of the choicest varieties do not succeed unless budded or grafted.

Culture and Hints on Growing. The best soil to grow Roses is good top soil with rotted cow-manure added. Dig out the bed to a depth of 2 feet or more, and, if drainage is imperfect, it must be provided for. Fill in with a mixture of soil and manure as above. It is best to make beds, if possible, in advance of planting, so as to allow time for settling. Beds may be made any size, but it is best to have them about $3\frac{1}{2}$ by 5 feet, which enables you to pick the blooms without stepping on the beds. The ideal time to plant is just after severe frost has passed. Hybrid Teas should be set 18 inches apart; Hybrid Perpetuals 2 feet apart, and both 8 inches from the edge of the beds. They should be planted with the roots well spread out and placed about 9 inches below the surface of the ground, the soil made firm about them and liberally watered. Throughout the summer the surface soil should be cultivated weekly. If good cultivation, like the above, is given, watering will rarely be necessary. The most serious insect pest that attacks Roses is the rose bug. We recommend the use of Melrosine listed on page 63 of our catalogue, as the best known remedy for this pest.

Winter Protection. In this latitude the most satisfactory form of protection is to draw up a mound of soil from 8 to 10 inches high around the base of the plant, then cover the entire bed after the ground begins to freeze with any loose material, such as strawy manure, evergreen boughs, or corn stalks.

POT-GROWN PLANTS

ALEXANDER HILL GRAY. Deep lemon-yellow, which intensifies as the bloom develops.

COLUMBIA. This beautiful Rose has not only become one of the most popular greenhouse blooming varieties, but has proved itself one of the best bedding and garden sorts. It is of strong, vigorous habit and exceptionally free-blooming. In color it is a most pleasing shade of rose-pink and delightfully fragrant.



Radiance Roses



Gruss an Teplitz Roses

GRUSS AN TEPLITZ. Of a rich scarlet, shading to a velvety crimson. A very free grower and in bloom all the time; succeeds well under the most ordinary conditions.

FRANCIS SCOTT KEY. This strong, sturdy growing variety of American origin, has proven a valuable Rose for the garden. The flowers are large, very double, well formed and of unusual substance, while in color it is a deep even red.

KAI SERIN AUGUSTA VICTORIA. A soft pearly white, faintly tinted lemon in the center. Very fragrant, beautifully formed flowers on long, graceful stems.

LA FRANCE. Silvery-rose, with pink shades; large, symmetrical and deliciously fragrant blooms from June until frost.

MME. BUTTERFLY. A very lovely variety. Bright pink, shaded apricot and gold.

OPHELIA. Flowers erect on long, stiff stems, of perfect form, large size, and of a most pleasing delicate tint of salmon-flesh, shaded rose.

RADIANCE. A brilliant carmine-pink, with salmon-pink and yellow shadings at the base of the petals. A Rose that will withstand the most unfavorable hot summer weather.

RED RADIANCE. A counterpart of Radiance, except in color, which is a clear cerise-red. A most valuable addition to our list of Roses.

ROBIN HOOD. Rosy-scarlet color at once soft, bright and lasting; bloom full and of beautiful form. Sturdy and free-flowering.

SUNBURST. This well-named variety has become popular because of its long and lovely buds, which open to large and full flowers of distinct sulphur-yellow. The plant is strong, of somewhat spreading habit, with few thorns.

The above 12 varieties are strong pot-grown plants. We offer same in 4- and 6-inch pots. 4-inch 90 cts. each, \$9 per dozen; 6-inch \$1.25 each, \$12.50 per dozen.

DORMANT PLANTS

We also offer the following varieties in dormant plants. They are American-grown, budded, and two years old. They make strong plants and produce fine flowers the first year:

Los Angeles. Flame-pink.

Kaiserin Augusta Victoria.

Pearly white.

Ophelia. Salmon-flesh.

Carmine-pink.

Gruss an Teplitz.

Rich scarlet.

Duchess of Wellington.

Saffron-yellow.

Price, \$1 each

COLLECTION OFFER: 1 plant each of the above 6 varieties, \$5; 2 plants each of the above 6 varieties, \$9



A border planted with Hardy Phlox, when established, makes a beautiful display

HARDY PHLOX

The Hardy Phloxes are, without doubt, the most important of all hardy perennials, and are now to be found in nearly every garden. They succeed in almost any kind of soil or position, and flower from early summer until late in the fall. They also improve from year to year, and contain a range of brilliant colors not found in any other hardy plant. We have a very fine collection of them.

Culture.—Hardy Phlox may be planted in spring or fall; a mulch of old manure thrown around the roots will be of benefit to the plants. Phlox should be set out 18 inches apart, and if kept well watered will produce both individual blossoms and heads of bloom far larger than otherwise, and amply repay the extra trouble. To procure best effects, plants should be massed in from six to twelve clumps of each variety.

BARON VAN DEDEM. A very striking new variety. Large trusses and flowers; color, glistening scarlet-blood-red.

BRIDESMAID. Pure white with large crimson center.

FANTOME. Deep lavender, edged and shaded white.

LUMINEAUX. Pinkish.

MRS. CHARLES DORR. Beautiful shade of lavender.

PANTHEON. Cerise-salmon, white center; large branching spikes.

Early-Flowering Hardy Phlox

Phlox suffruticosa

MISS LINGARD. A grand variety, which begins flowering after the middle of June and continues throughout the season. Extensively used for cut-flowers.

Price, any of the above varieties, 30 cts. each, \$3 per doz., \$20 per 100

HERBACEOUS PEONIES

Peonies rank among the most beautiful of all hardy perennials, and no garden is complete without their charming influence. The popular interest in many parts of the world has brought a very gratifying improvement in the Peony. In the newer sorts gigantic flowers have been produced, reaching, in many instances, the large size of 7 to 9 inches in diameter and 5 to 6 inches in depth, with strong, stiff stems $2\frac{1}{2}$ to 3 feet long. The permanency of Peonies should especially recommend them to your favor; for, once planted in suitable soil, they will continue to grow better and larger each year. A situation well open to the sun suits them best but they thrive in partial shade also.

Culture.—The culture of Peonies is quite simple. They require a good, deep, rich soil and an abundant supply of water during the growing season. When enriching the ground, the use of too much fresh manure near the roots should be avoided. The main point to observe is, while the ground should be well spaded and cultivated, **not to plant the roots too deep.** The roots should be planted so that the eyes are barely covered (about 1 to 2 inches). Too deep planting is the cause of shy flowering.

Size of Roots.—The roots we offer have been grown two years from root divisions. If planted during April or May these roots should become well established and give some flowers the following year.

COMTE DE DIESBACH. Medium size; rich dark red; splendid grower; free bloomer; early. 50 cts. each, \$5 per doz.

DUKE OF WELLINGTON. (Calot 1859.) Large; bomb type, with white guards and sulphur center. Medium tall; vigorous grower; free bloomer. Late. 60 cts. each, \$6 per doz.

EDULIS SUPERBA. (Lemoine 1824.) Large; loose, flat crown; bright mauve-pink collar mixed with narrow lilac. Early. Strong, upright; free bloomer. One of the best commercial pinks for Decoration Day. 50 cts. each, \$5 per doz.

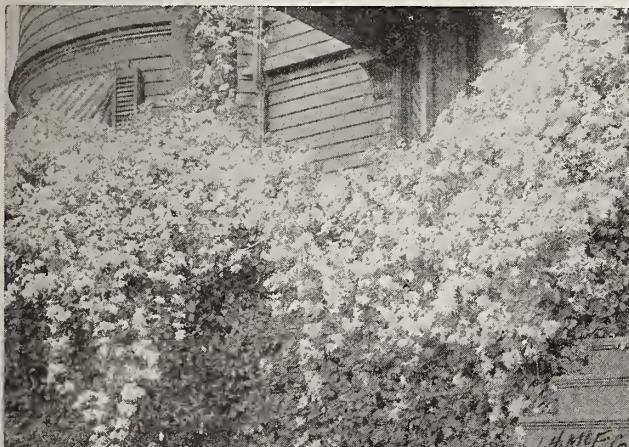
FELIX CROUSSE. (Crousse 1881.) Large; globular; typical bomb; brilliant red. Strong, vigorous grower; medium height; free bloomer. One of the best reds. 75 cts. each, \$7.50 per doz.

FESTIVA MAXIMA. (Miellez 1851.) Very large; globular, rose type; pure white center, prominently flecked crimson, outer petals sometimes faint lilac-white on first opening. Very tall, strong, vigorous grower. Early. The most popular white variety for cut-flowers. 50 cts. each, \$5 per doz.

LOUIS VAN HOUTTE. (Calot 1867.) Medium size; semi-rose type; deep carmine-rose, tipped silver, with fiery reflex—very brilliant coloring; fragrant. Medium height and habit. Late. 50 cts. each, \$5 per doz.

RICHARDSON'S DORCHESTER. (1870.) Large, compact, rose type; pale hydrangea-pink. Fragrant. Medium dwarf; upright; free bloomer. 50 cts. each, \$5 per doz.

HARDY CLIMBING PLANTS



Clematis paniculata

AMPELOPSIS

(Sometimes called Boston Ivy and Japan Ivy)

VEITCHII. This is the most deservedly popular of all climbing plants, being entirely hardy in the most exposed places and attaining a height of 30 feet in two or three years; clings to stones, brick or woodwork with the greatest tenacity. During the summer the leaves are a rich shade of green and lap over each other with great regularity, like a coat of mail or like slates on a roof. But it is in the fall that it shows its exquisite beauty. The leaves then change to the brightest tints of scarlet, crimson and orange, so dazzling as to be seen at a great distance. Extra strong, field-grown plants, 75 cts. each, \$8 per doz., \$60 per 100.

HEDGE PLANTS

We offer two of the principal shrubs that are extensively used for Hedge Plants

BERBERIS THUNBERGII

(Japan Barberry)

Where a dwarf, deciduous hedge is wanted, nothing equals this beautiful Barberry. It requires but little pruning to keep it in shape. The leaves are small, light green, and towards fall assume rich, brilliant colors, the fruit or berries becoming scarlet. It is used extensively throughout the country and is perfectly hardy. Extra-strong, 1 to 1½ feet, 4 to 6 branches, \$5 per doz., \$35 per 100.

CALIFORNIA PRIVET

(Ligustrum ovalifolium)

This is, perhaps, the most popular of all the hedge plants. Being absolutely hardy, it increases in beauty with each successive year. To get best results, plants should be set 1 foot apart in double rows in zigzag fashion, so that the plants are diagonally opposite each other. This practically places them 6 inches apart, which is desirable to get quick, dense growth. May be planted from March 15 to May 15, or from October to frost. Extra-strong, 2 ft., 5 to 6 branches, \$2 for 25, \$7 per 100, \$60 per 1,000.

FRUIT TREES

Extra-selected stock of the leading varieties of Apples, Pears, Cherries, Plums. \$1.50 each, \$15 per doz. Peaches, \$1 each, \$10 per doz.

SMALL FRUITS Prices on application

Blackberries

Currants
Raspberries

Grape-Vines

Gooseberries
Strawberries

Hedge of Berberis Thunbergii

VEGETABLE PLANTS

All the best varieties, grown from selected strains of seed. Prices on application.

Cabbage

Cauliflower

Celery

Tomato (Pot-grown)

Pepper (Pot-grown)

Potato, Sweet

Eggplant (Pot-grown)

No Bedding Plants, Vegetable Plants, or Nursery Stock delivered C. O. D. All plants shipped at owner's risk



Hardy Ornamental Flowering Shrubs

Shrubs are of great importance for the ornamentation of home-grounds. They have many uses; some are valuable as cut-flowers, while others are as decorative as any ornamental foliage plant. They may be used as a dividing-line between the flower- and vegetable-garden, or between the lawn and the uncultivated land beyond, as a background for the flower border, and for hiding an unsightly building, fence, or foundation. Soil where they are to be planted should be well spaded and enriched with bone-meal. Unless a very immediate effect is required, sufficient space should be allowed between them to permit of full development—3 feet for dwarf varieties and 5 feet for the taller ones. As a general rule, shrubs should be thinned or pruned just after they have finished flowering, and then only slightly, just enough to keep them in nice, symmetrical shape.

The best time to plant is from early spring, when ground can be worked, until about May 1, the earlier the better. We offer a list of the best standard varieties, and where our patrons require a larger selection, we will be pleased to quote. **We ship only by express, purchaser paying charges.**

ALTHEA (Rose of Sharon)

The Altheas are among the most valuable of our tall, hardy shrubs on account of their late season of blooming, which is from August to October, a period when few shrubs are in flower. They are extensively used as hedge plants, for which they are admirably adapted. 75 cts. each, \$7.50 per doz.

CALYCANTHUS

Floridus (Sweet or Strawberry Shrub). A very pretty shrub flowering during May. The flowers are double, chocolate-colored, and strawberry scented. Strong plants. 75 cts. each, \$7.50 per doz.

DEUTZIAS

Well-known, profuse-flowering shrubs blooming in early summer. They succeed well in any sunny position.

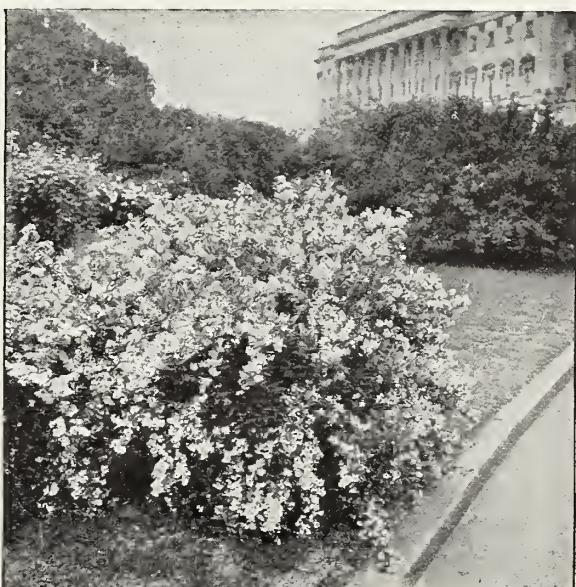
Gracilis. A great favorite, dwarf, covered with spikes of pure white flowers in early summer. Strong plants, 1½ to 2 feet. 75 cts. each, \$7.50 per doz.

Pride of Rochester. A fine, tall-growing, double, white-flowering variety. Strong plants, 2 to 3 feet. 75 cts. each, \$7.50 per doz.

FORSYTHIA

A very decorative shrub with bright golden yellow, star-shaped flowers which burst into bloom at the beginning of spring while the bush is otherwise bare.

Viridisima (Golden Bells). Similar to the above but of more erect habit. 75 cts. each, \$7.50 per doz.



Deutzia gracilis

HYDRANGEA

Paniculata grandiflora. Considered the most popular summer-flowering shrub. The flowers, which are borne in dense, pyramidal panicles a foot long, in greatest profusion, are white when they first open but gradually change to rose color, and remain in good condition for weeks. Strong plants. 75 cts. each, \$7.50 per doz.

PHILADELPHUS

Mock Orange

This old-fashioned sweet-scented shrub has long been a close rival of the lilac in popularity.

Coronarius (Garland Mock Orange). This is a popular tall variety, refined and beautiful; large white flowers. Strong plants. 75 cts. each, \$7.50 per doz.

SPIRÆA (Meadow Sweet)

Anthony Waterer. A valuable variety. Color bright crimson. It is of dwarf, dense growth, never exceeding 30 inches in height and blooms the entire summer and fall, if the old flower-heads are removed. 75 cts. each, \$7.50 per doz.

Van Houttei. The grandest of all the white Spireas. It is of compact habit and a beautiful ornament for the lawn at any season, but when in flower is a very beautiful sight, the white blooms almost entirely covering the foliage. 75 cts. each, \$7.50 per doz.

SYRINGA, or LILAC

We offer two of the common varieties of Lilac, but will be pleased to correspond with our customers who are desirous of growing the better named varieties.

Common Purple (*Syringa vulgaris*). Purple. 75 cts. each, \$7.50 per doz.

Common White (*S. vulgaris alba*). White. 75 cts. each, \$7.50 per doz.

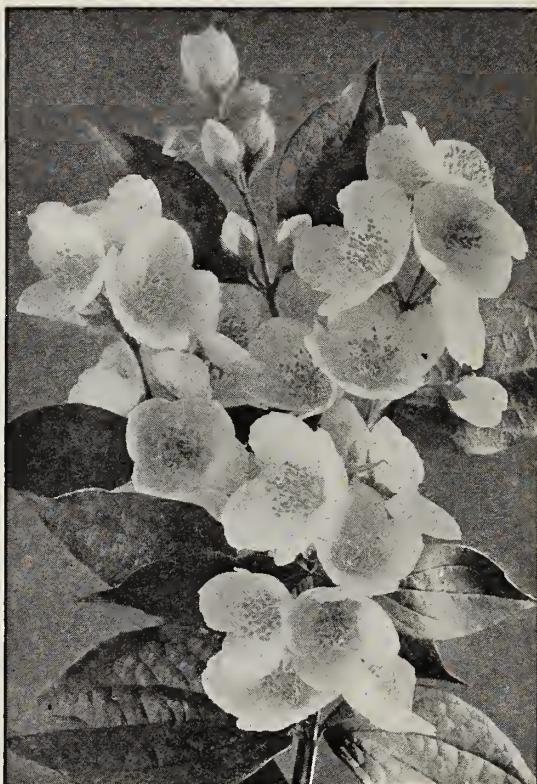
VIBURNUM

Plicatum (Japan Snowball). One of the choice hardy shrubs, with healthy dark green foliage. The perfect balls of pure white flowers are borne in great profusion in May. Strong plants. \$1 each.

Opulus (High-Bush Cranberry). The white flowers in June are followed in autumn by bright scarlet berries, which are very attractive until late in winter. Strong plants. 75 cts. each, \$7.50 per doz.



Weigela rosea



Philadelphus coronarius

WEIGELAS

These easily take rank among the most popular flowering shrubs, covered, as they are, in May and early June by their large, trumpet-shaped flowers.

Eva Rathke. Considered the finest Weigela in cultivation, blooming continuously throughout the summer and autumn. The flowers are a rich ruby-carmine. 75 cts. each, \$7.50 per doz.

GRAPE-VINES

We can also supply Grape-Vines in the leading varieties. 75 cts. each, \$8.50 per dozen.

HUBBARD

The New Black Grape

Quality sweet and delicious, having that fine and pleasant flavor approaching the European or Vinifera Grapes; seeds few and small, which separate freely from the tender pulp; skin thin and firm; berries and bunch large and uniform. Ripe about 10 days earlier than Concord. We have investigated many new Grapes in the past 10 years and found no other with so many excellent points. The Hubbard Grape being of better quality, a better shipper, better size, healthier foliage, stronger growing, and earlier ripening makes it a more desirable Grape to plant than either Concord or Niagara. Our supply of vines of this new Grape is limited and orders will be filled in rotation.

3-yr., first-class Vines, \$1.50 each, \$12 for 10, delivered by parcel post



Planet Jr. Farm and Garden Tools



72-page Planet Jr. catalogue free. Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Cultivators. Write postal for it

They cut down work and boost your crops. These scientific tools do the work of three to six men, give bigger yield, and save their cost in a single season. Invented and made by a practical farmer and manufacturer, with half a century's experience. Planet Jrs. are strong and lasting. Every tool fully guaranteed. Come and let us convince you of their economy. THE FOLLOWING PRICES ON PLANET JR. ARE SUBJECT TO CHANGE WITHOUT NOTICE.

No. 3 Planet Jr. Hill and Drill Seeder

Holds three quarts of seed. A favorite among onion-growers, market-gardeners, and seedsmen. Sows accurately in a narrow line, making wheel-hoe cultivation easy.



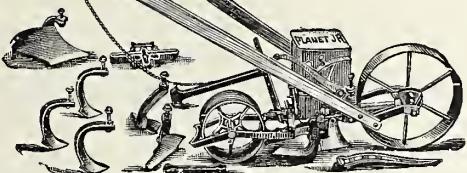
Price, \$18.50

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator, and Plow

Price, \$19.00

No. 4 D, Hill and Drill Seeder.

Same as above, less the cultivating attachments.
\$15.00



Soon pays for itself in the family garden as well as in the larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates quickly and easily.

Price, \$22.50

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double-Wheel Hoe, Cultivator and Plow

A splendid combination for the family garden, onion-grower, or large gardener. It is a perfect Seeder, and combined Double- and Single-Wheel Hoe.



Asparagus Knives

Imported English.

Saw-Tooth, Plain. \$1.50 each.

Highly Finished. -\$2 each.

American Asparagus Knives.

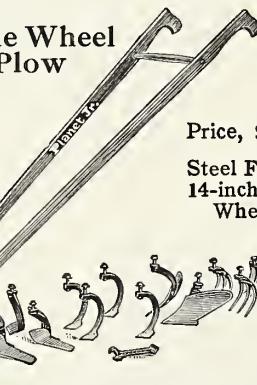
Straight Edge. 50 cts. each, \$5.50 per doz.

V-Shape. 50 cts. each, \$5.50 per doz.

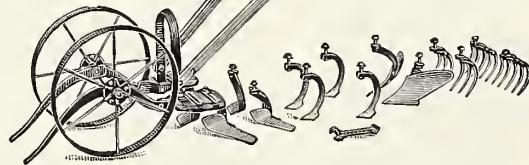


No. 11 Planet Jr. Double Wheel Hoe, Cultivator and Plow

A Single- and Double-Wheel Hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.



Price, \$14.50
Steel Frame
14-inch Steel
Wheels



No. 12 Combined Double- and Single-Wheel Hoe, Cultivator, and Plow. Price, \$13.00

This tool is identical with No. 11 Double-Wheel Hoe, except that it has one pair of plows, one pair of hoes, four cultivator teeth, and a pair of leaf-lifters only, and is sold at a correspondingly less price. The attachments sold with No. 12 are what gardeners use most, and the others can be added as wanted.

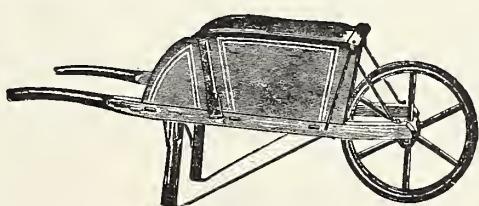
No. 16 Planet Jr. Single-Wheel Hoe, Cultivator, Rake, and Plow

Price, \$9.50

The highest type of Single-Wheel Hoe made. Light, but strong, and can be used by man, woman, or boy. Will do all the cultivation in your garden in the easiest, quickest, and best way.

No. 17 Planet Jr. Single-Wheel Hoe. Price, \$8.00

Has a pair of 6-in. hoes, a plow, and a set of cultivator teeth; sufficient for most garden work.



S. & W. Co.'s Garden Barrow

One of the most useful articles on the list of garden and lawn tools. Materials are selected oak, mortised and bolted together, strengthened with six iron braces. Made substantial, light and for long service. Wheels with 3-inch tread.

SIZE	Front Width	Size of Box Depth	Rear Width	SIZE OF WHEEL		
				Diam.	Tread	Price
Medium	18½ in.	12 in.	26½ in.	23 in.	20 in.	\$8.00
Regular	20 in.	12 in.	28 in.	24 in.	22 in.	9.25

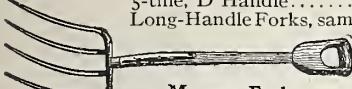
Garden and Lawn Tools

Forks



Spading Fork

Spading Forks. Best grade; tines spear-pointed with diamond-shaped backs; handle strapped both sides. Of superior quality and very strong. Each
4-tine, D Handle..... \$2 00
5-tine, D Handle..... 2 50
Long-Handle Forks, same price.



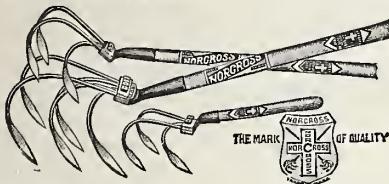
Manure Fork

Manure Forks. Best grade; strong oval tines. Each
4-tine, D Handle..... \$2 00
5-tine, D Handle..... 2 15
6-tine, D Handle..... 2 40
Long-Handle Forks, same price.

Hay Forks.

Best grade; strong oval tines, made only with long handles. Each
2-tine, Long Handle..... \$1 20
3-tine, Long Handle..... 1 30
4-tine, Long Handle..... 1 45

Boys' Spading Forks...... 1 25



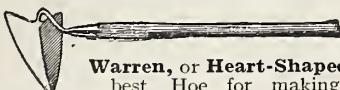
Norcross Cultivator Hoe and Weeder

Wherever vegetables, plants and flowers are grown, these modern tools are rapidly replacing the ordinary Hoe. They are made in three sizes, and can be used in wide or narrow rows. Will also cultivate both sides of a row at one operation, when the middle prongs are removed. The three-prong Weeder is the women's size. They destroy weeds, leave the soil level, loose and untrampled. 5-prong, \$1.35; 3-prong, \$1; Midget, 55 cts.

Hoes



English Scuffle Hoe. Imported. Positively the best. The quality of material used and finish is superior to all others. Size Each Size Each
4-in..... \$1 00 | 8-in..... \$1 40
5-in..... 1 10 | 9-in..... 1 50
6-in..... 1 20 | 10-in..... 1 70
7-in..... 1 30 | 12-in..... 2 00
Extra-strong handles, 4½ ft., 50 cts.; 6 ft., 80 cts. each.



Warren, or Heart-Shaped. The best Hoe for making drills, covering, hoeing, and weeding. Each
Small size..... \$1 25
Medium size..... 1 50

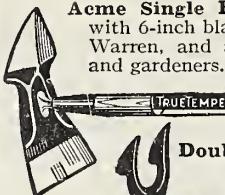


Draw, or Garden. Sizes for boys, ladies and men. Each

5-in..... \$0 90 | 9-in..... \$9 00
6-, 6½-, 7-, and 7½-in..... 1 10 | 11 00

HOES, continued

Acme Single Prong. Acme Hoes with 6-inch blade, are similar to the Warren, and are used by florists and gardeners. \$1 each.



Double Prong, \$1.25.



Rakes

Reversible Steel. Suitable for lawn and garden. Has 24 teeth. 75 cts. each.



Steel-Bow Garden. Extra strong; will not break in the middle. Each

12-tooth..... \$1 25
14-tooth..... 1 40
16-tooth..... 1 50

Steel Garden. Cut from one piece of steel; strong and durable. Each

10-tooth..... \$1 00 | 14-tooth..... \$1 20
12-tooth..... 1 10 | 16-tooth..... 1 35

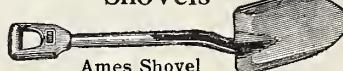
Steel Gravel. Like the Garden Rake. Made substantial, with short teeth. Each

14-tooth..... \$1 25
16-tooth..... 1 50
18-tooth..... 1 75

Wood Hay and

Lawn. Made light and substantial, with tubular steel bow; does not break like the wood bow. Each Doz.
12-tooth Hay..... \$1 20 | \$12 00
24-tooth Lawn, 1 50 | 15 00

Shovels



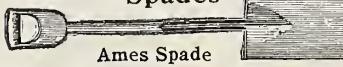
Ames Shovel

Ames Shovels are the best manufactured; give best service. Each
Square Point, D Handle..... \$2 50
Round Point, D Handle..... 2 60
Long-Handle Shovels, same price.

S. & W. Co.'s Shovels.

Square Point, D Handle..... \$2 00
Round Point, D Handle..... 2 10
Long-Handle Shovels, same price.

Spades



Ames Spade

Ames Spades are the same grade as the Ames Shovels. Each
D Handle and Long Handle..... \$2 50

S. & W. Co.'s Spades are the same grade as S. & W. Co.'s Shovels. Each
D Handle and Long Handle..... \$2 00

Boys' Spades..... 1 75

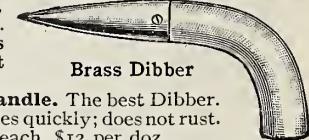
PRICES SUBJECT TO MARKET CHANGES

Dibbles or Dibbers

Just the tool for transplanting tomatoes, cabbage, celery, etc.

B r a s s p o i n t a n d
w o o d h a n d l e. Brass Dibber

Polishes quickly; does not rust. \$1.25 each, \$12 per doz.



Steel point and wood handle. Regular size, 9¾ in., \$1 each, \$10 per doz. Small size, 8 in., 90 cts. each, \$9.50 per doz.



Gem Hand Fork

Has three steel prongs and finished handle. Is a handy Fork for transplanting strawberries, loosening the soil, etc. 50 cts. each.



Grass Hook. Tempered steel blade; black-enamored handle. Used also for a Corn Hook and for clipping hedges. Blade can be detached and packed for parcel post. 60 cts. each, 3 lbs., packed.

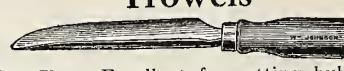
Grass and Lawn Scythes



Domestic. Cutlery steel, natural oil finish; cutting edge web and backs polished. 32-in..... \$2 25 | 36-in..... \$2 60
34-in..... 2 40 | 38-in..... 2 80

Scythe Snath, or Handle. The very best, with patent socket. \$2.50.

Trowels



Slim Jim. Excellent for setting bulbs or transplanting. 5-inch size, 20 cts.; 7-in. size, 30 cts. each.



Forged Steel. This Trowel is second to the Maynard Trowel in quality and finish. The blade and shank are one piece, forged out of the best of steel. Made in three sizes. 5-in., \$1; 6-in., \$1.10; 7-in., \$1.20.



Stumpwall is the best made Trowel. The ferrule and shank, as well as the blade, are forged in one piece. Only the very best material used. 6-in., \$1.25 each.



Florists' Steel Trowel

This Trowel is made in one piece of heavy sheet steel. One size only, 6-in., 50 cts. each.

SMALL GARDEN TOOLS, FLOWER POTS



Line Reel

Garden Line Reel

Malleable Iron. Holds 100 feet. \$1.25.

Eureka. Galvanized steel. Single, 500-foot size, \$3.25. Double, 1,000-foot size, \$4.

Garden Line

Best Braided Linen. 100 feet, one length, \$1.50, 200 feet, one length, \$2.75.

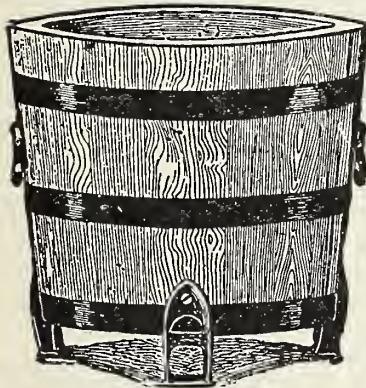


Cleveland Lawn Weeder

Tubs

Plant-Tubs, New York Cedar. Made of the choicest seasoned cedar, highly finished with black hoops: will last twice as long as cypress.

No.	Diam.	Height	Price
1.....	12 in.....	10 1/2 in.....	\$2 50
2.....	13 in.....	13 in.....	3 50
3.....	14 1/2 in.....	15 in.....	4 25
3 1/2.....	16 1/2 in.....	15 1/4 in.....	5 50
4.....	19 1/2 in.....	17 in.....	6 00
5.....	22 1/2 in.....	18 1/2 in.....	7 50



New York Cedar Tub

Plant Stakes and Supports

Bean Poles. Excellent for staking Pole Lima Beans. 30 cts. each, \$3.50 per doz., \$25 per 100.

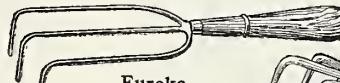
Tapering, Green—

Plant,	Doz.	100
1 1/2 feet.....	\$0 35	\$2 25
2 feet.....	60	4 00
2 1/2 feet.....	80	5 20
3 feet.....	1 10	7 25
3 1/2 feet.....	1 50	9 20
4 feet.....	1 60	11 00
5 feet.....	2 10	14 50

Dahlia Poles—

3 feet.....	1 80	11 50
3 1/2 feet.....	2 00	13 50
4 feet.....	2 25	15 50
5 feet.....	2 75	19 50
6 feet.....	3 50	24 50

Chinese Tonkin Cane. These are Chinese canes, very strong and heavy.	100	1,000
2 feet, heavy.....	\$1 50	\$10 00
4 feet, heavy.....	3 00	25 00
5 feet, heavy.....	4 50	40 00
6 feet, heavy.....	5 50	50 00
7 feet, heavy.....	6 50	60 00
8 feet, heavy.....	7 50	70 00
10 feet, heavy.....	8 50	80 00



Eureka

Eureka. The favorite of all hand Weeders. The three solid steel prongs are set 1 1/2 inches apart to allow cultivating between two or more plants at once. Short handle, 60 cts. each. Larger size, 24-inch handle, 70 cts. each.

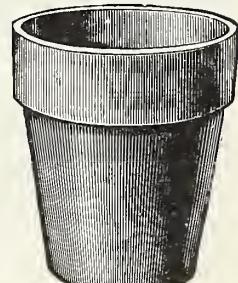
Excelsior Finger. This five-short-prong Weeder is excellent for loosening the soil in small flower-beds, etc. 35 cts. each, \$3.50 per doz.

Cleveland Lawn. Is simple to operate; it not only saves the back, but is actually a pleasure to use. The cut is a good illustration, showing how to work it. \$1.50 each, \$15 per doz.

Flower Pots, Standard

EARTHENWARE. Best on the market

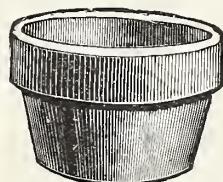
Diam.	Each	Doz.	100	1,000
2 in.....	\$0 40	\$1 60	\$14 00	
2 1/2 in.....	50	2 50	18 00	
3 in.....	70	3 50	25 00	
4 in.....	\$0 10	1 00	5 50	38 00
5 in.....	20	1 75	9 50	70 00
6 in.....	25	2 25	13 00	105 00
7 in.....	35	3 25	22 00	175 00
8 in.....	50	5 00	34 00	250 00
9 in.....	1 00	10 00	55 00	380 00
10 in.....	1 25	12 00	70 00	520 00



Flower Pot

Saucers of same material, to fit Pots, furnished extra

Diam.	Each	Doz.	100	Diam.	Each	Doz.	100
4 in.....	\$0 50	\$3 00	8 in.....	\$0 15	\$1 50	\$10 60	
5 in.....	60	3 80	9 in.....	25	2 50	14 50	
6 in.....	\$0 10	1 00	10 in.....	30	3 00	17 50	
7 in.....	15	1 30	11 in.....	35	3 50	21 50	



Bulb Pan

Diam. at top	Depth	Each	Doz.	100
8 in.....	4 1/4 in.....	\$0 40	\$4 00	\$28 00
9 in.....	4 3/8 in.....	60	5 75	42 00
10 in.....	4 1/2 in.....	80	8 00	58 00
12 in.....	4 3/4 in.....	1 65	16 50	118 00
14 in.....	5 in.....	3 00	30 00	200 00
16 in.....	7 in.....	5 50	55 00	420 00

Paper Flower Pots, Neponset

Very economical; waterproof; can be nested closely for shipping.

Diam.	Doz.	100
2 1/2 in.....	\$0 15	\$0 70
3 in.....	20	8 50
3 1/2 in.....	25	1 20
4 in.....	30	1 75
5 in.....	50	2 50
6 in.....	60	3 00



Paper Pot

Pot or Garden Labels

Wooden—

4-inch.	100	1,000
4 1/2-inch.	40	2 50
5-inch.	45	2 75
6-inch.	60	3 25
8-inch.	1 25	9 00
10-inch.	1 35	11 00
12-inch.	1 60	13 25

Copper-wired—

3 1/2-inch.....	65	3 00
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Self-Watering Hanging-Baskets and Boxes, Lawn Rollers, Etc.

PRICES SUBJECT TO MARKET CHANGES



Self-watering Hanging-Basket

FOR BULBS. Our Self-watering Baskets and Boxes are, without question, the most satisfactory device for growing bulbs ever devised. A beautiful and certain growth, with a minimum of care.

FOR FERNS. Nearly every home-lover is a lover of ferns, but few succeed with them. They never fail in Illinois Self-watering Flower-Boxes, or Hanging-Baskets.

These Hanging-Baskets are made entirely of heavy sheet-zinc, spun into form and without seams; can be used in a library or parlor or any desired place without danger of damaging the most delicate furniture or fabric, as leaking or dripping of water is absolutely impossible. Filling the water-container is necessary but once a week, and this can be accomplished from the floor without disturbing the basket or using anything on which to stand. A strong, solid brass chain is furnished. Additional chain required charged for at 5 cts. per lineal foot. We also furnish a strong, neat bracket, suitable for hanging-baskets, bird-cages, etc. With screws, 50 cts.

Diameter 8 in	\$5 25
Diameter 10 in	6 50
Diameter 12 in	7 75

Success Flower-Boxes and Tubs

The Success Flower-Boxes and Tubs are substantially constructed of galvanized sheet steel, locked seamed and soldered water-tight. A water-pocket extends the full length of the box the tubes of which lead into the box itself. This pocket with the tubes serves the following purposes: Provides for watering the roots from below, allowing them to take up moisture as required, provides air circulation and ventilation, keeping the soil sweet and healthy; provides a perfect drainage should the plants be excessively watered by heavy rains or other causes.

Length	Width	Depth	Each
Flower-Boxes 24 in	8½ in	6¾ in	\$1 50
Flower-Boxes 30 in	8½ in	6¾ in	2 00
Flower-Boxes 36 in	8½ in	6¾ in	3 00
Tubs 10 in	10 in	7¼ in	2 00
Tubs 12 in	12 in	8¾ in	2 25
Tubs 14 in	14 in	10¾ in	3 00



All-Iron Hose Reel

All-Iron Hose Reel No. 30

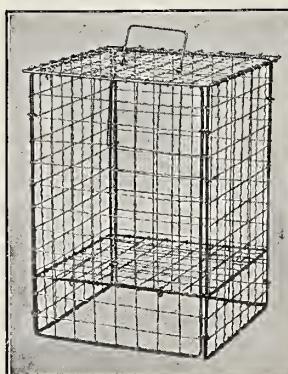
The All-Iron Hose Reels are constructed entirely of iron, and are indestructible. They are light in weight, frictionless, and the wheels being high, they are easily manipulated. These Reels cannot tip over when unreeling and there is no weight on the handle.

The use of a Reel lengthens the life of your rubber hose.

No. 10, 21-in. wheel, holds 100 feet ¾-in. hose, \$5 each.

No. 20, 24-in. wheel, holds 150 feet ¾-in. hose, \$5.50 each.

No. 30, 30-in. wheel, holds 500 feet ¾-in. hose, \$9 each.



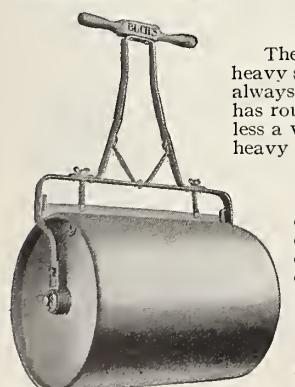
Burners for Leaves, Paper and Rubbish

The best receptacle used for burning leaves, papers, and all kinds of rubbish. This handy knock-down Burner is a safeguard against many fires that have their origin in the burning of rubbish in the open. The Burner is extra strong, manufactured of heavy galvanized steel wire, reinforced with iron supports. Made to give lifelong satisfaction. A trash-burner makes possible a tidy garden. We supply this Burner in two sizes.

No.	Size	Each
1 . . . 15 in. x 15 in. x 22 in	\$3 00	
2 . . . 17 in. x 17 in. x 29 in	4 00	

Stumpf & Walter Co.'s "Water-Ballast" Lawn Roller

The Stumpf & Walter Co.'s Water-Ballast Roller is a most satisfactory Roller. The construction consists of three heavy steel plates, pressed together and electric-welded, forming one solid steel drum with no leaky joints; handles are always off the ground as shown in the illustration. A scraper keeps the Roller clean. It is easy to pull. The drum has rounded edges to avoid tearing the turf. The Roller is filled with either water or sand, and by using more or less a weight is obtained which is most suitable for the conditions—light for moist lawns, medium for dry lawns, heavy for paths. The weight of each Roller empty and filled is given with the diameter and length below.



Fill it with Water or Sand

Cast-Iron Hand Lawn Rollers

Made in one, two, and three sections. The face of each Roller is made smooth, with outer edges rounded to avoid cutting the lawn or garden. Roller-bearing, outside counter-balancing weights to keep the handles in an upright position. The Rollers of two or more sections are preferable, as they will not injure the grass when turning. The best one-man Rollers are those averaging from 300 lbs. to 450 lbs.

Diam.	Length	Weight	Price	Diam.	Length	Weight	Price
No. Sections in.	in.	lbs.		No. Sections in.	in.	lbs.	
1 . . . 2 . . . 15 . . . 15 . . .	15 . . .	150 . . .	\$14 50	8 . . . 3 . . . 20 . . . 30 . . .	30 . . .	350 . . .	\$33 50
2 . . . 3 . . . 15 . . . 22 . . .	200 . . .	19 00		10 . . . 2 . . . 24 . . . 24 . . .	450 . . .	42 00	
7 . . . 2 . . . 20 . . . 24 . . .	300 . . .	28 00		13 . . . 2 . . . 28 . . . 24 . . .	500 . . .	48 00	



Cast-Iron Hand Lawn Rollers

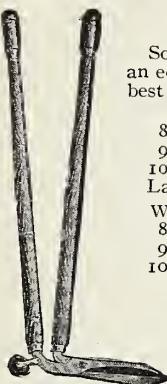
Pruning Tools, Orchard Supplies, Rubber Hose, Etc.

PRICES SUBJECT TO MARKET CHANGES

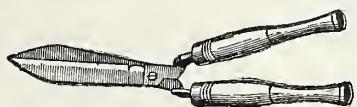
Hedge Shears

Solid steel blade, crucible tool-steel, tempered to hold an edge. Give good service. Shears with notch are the best for cutting heavy stems of hedge plants.

	Price
Plain 8-in. blade.....	\$2.90
9-in. blade.....	3.25
10-in. blade.....	3.75
Ladies'.....	2.50
With notch 8-in. blade.....	3.25
9-in. blade.....	3.50
10-in. blade.....	4.25



Border Shears



Hedge Shears

Grass Edging or Border Shears

Designed to trim the overhanging grass on borders, around flower-beds and walks. 9-in. blades of high-grade tool-steel; polished handles and blades. Without wheel, \$5.50; with wheel, \$6.



Grass Shears

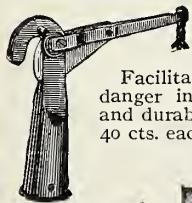
S. & W. Co.'s Grass Shears

A very simple but practical locking device holds the Shears together. Made of the best crucible tool-steel; polish finish. One size only, 6½-in. blade, \$2.50.

Western Grass Shears. Made of good-quality tool-steel. A one-piece Shears. Plain finish, 6-in. blade, \$1.50. A leather shield is furnished with each Shears.

Pruning Shears

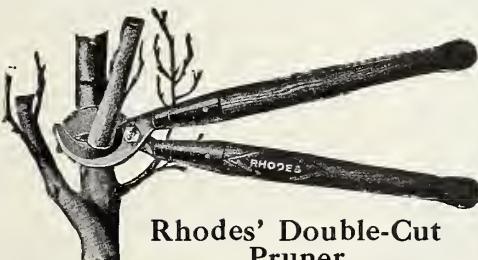
S. & W. Co.'s Solid Steel Pruning Shears. Crucible tool-steel. Blade and handle are one piece of polished steel; a ratchet nut keeps the Shears properly tightened; will not break; excellent finish. Made in three sizes. 8-in. \$2.50, 9-in. \$2.75, 10-in. \$3.



Telegraph Pole Pruner

Telegraph Pole Pruner

Facilitates the pruning of tall trees, eliminating the danger incident to using a ladder. It is very strong and durable. Plain, \$1.75; with handle, \$2. Extra knives, 40 cts. each; extra springs, 40 cts. each.

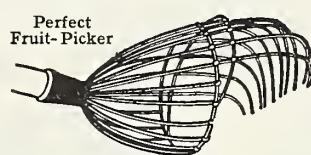


Rhodes' Double-Cut Pruner

A good and powerful Pruner. Cuts from both sides of the limb, and does not bruise the bark. Long ferrules; handles do not pull out; blades are of the best forged steel. 30-inch, \$5; 36-inch, \$5.25.

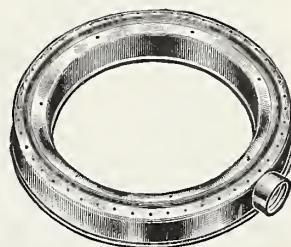
Asbestos Torch

Attach the Torch to the end of a pole; saturate with kerosene oil, light and hold under the caterpillars' nests, and pass quickly along the branches and around the trunk of the tree. The heat instantly destroys the insects and will in no way injure the trees. Without pole, 60 cts.



Perfect Fruit-Picker

Made of steel wire, heavily galvanized; can be attached to any pole. 60 cts. each.



Ring Lawn Sprinkler

The S. & W. Co.'s Ring Sprinkler is not to be compared with the cheaper Ring Sprinklers. It is made of brass, firmly constructed, and guaranteed to stand the water-pressure of any municipal water-works in the United States. 90c.

Rubber Hose



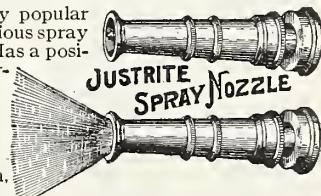
S. & W. Co.'s Special Brand (Wayahead). Surpasses all the cheaper grades of Hose. Its durability is not excelled by much of the higher-priced Hose. It is three-ply, seamless, and non-kinkable. Standard lengths, ¼-inch bore, 25 ft., \$4.50; 50 ft., \$8.50.



Electric. Three-ply, non-kinkable, molded Hose. The strength and durability of this Hose place it with the very best grades of Hose manufactured.

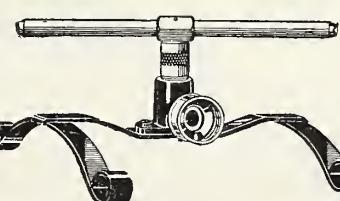
Standard lengths, ¾-inch bore, 25 ft., \$6.25; 50 ft., \$12. Standard lengths, ½-inch bore, 25 ft., \$5.75; 50 ft., \$10.50. Other lengths, ¾-inch bore, cut and coupled, 24 cts. per ft. Other lengths, ½-inch bore, cut and coupled, 21 cts. per ft.

Justrite Spray Nozzle. A very popular adjustable Nozzle. It gives a copious spray or a well-defined full stream. Has a positive shut-off, by turning the barrel of the nozzle. 90 cts.



Hose Menders

Perfect Clincher. ½- or ¾-inch, 15 cts. each, \$1.50 per doz.



Rainbow Revolving Sprinkler

The ideal Sprinkler for a low water pressure. Operates on a hard fiber washer which absorbs 20 per cent of water, furnishing a leak-proof and frictionless joint. This efficient little apparatus has proven through actual tests to deliver the maximum amount of spray on a low pressure; no wear and tear. Will water a circle of 40 to 50 feet in diameter. Price, \$3.

PRICES SUBJECT TO MARKET CHANGES

The Stumpp & Walter Co. Ball-Bearing Lawn Mower

ALWAYS READY, EASY-RUNNING, NOISELESS, SELF-SHARPENING, PERFECT ADJUSTMENTS.
WILL CUT GRASS 6 INCHES HIGH



THE STUMPP & WALTER CO.
BALL-BEARING LAWN MOWER

The Stumpp & Walter Co. Ball-Bearing Lawn Mower is universally a family Mower. Most anybody—man, woman or child—can use it with little exertion. It is a high-grade standard machine, adopting only the best features in its construction. The cutting parts are made of oil-hardened crucible tool-steel. The knives and blade will hold a durable edge and will not dull as the softer cutting parts of other Mowers do. The lawn is shaved smooth and even and without some corrugations. The simple adjustment sets the machine to shave the lawn to $\frac{1}{2}$ inch or up to $1\frac{1}{2}$ inches as may be desired. See the illustration which is a photograph of actual results. The expense of mowing a lawn is reduced to a minimum with the S. & W. Co. Lawn Mower. The durability of this Mower is unquestionable. It does not have to go to the repair shop each season as do frequently the low-priced Lawn Mowers.

The construction of this Lawn Mower has overcome the bobbing up and down and gouging that is common to some hand Mowers. The axle revolves in extra-large balls placed in hardened tool-steel cones and cups, and is driven with three gears on each side, by two 10-inch traction wheels. These wheels are made durable and are not easily broken.

Size	Gross weight	Net weight	Price	Grass Catcher
14-inch cut.....	.65 lbs.....	.40 lbs.....	\$17 50	\$4 75
16-inch cut.....	.67 lbs.....	.42 lbs.....	19 00	4 75
18-inch cut.....	.71 lbs.....	.45 lbs.....	21 00	5 25
20-inch cut.....	.76 lbs.....	.48 lbs.....	23 00	6 00

Townsend Flyer Mower

The best low-priced Mower made with ball-bearings. Four revolving blades, flexible bottom knife, self-sharpening. Made of best materials. A very easy-running and light Mower for ladies and children to operate.

Size	Price	Grass Catcher
14-inch cut.....	\$10 00	No. 1 \$3 00
16-inch cut.....	11 00	No. 2 3 25
18-inch cut.....	12 00	No. 2 3 50

Celery-Bleaching Tubes

THE QUICKEST BLEACHER
ON EARTH

Celery-Bleaching Tubes are the greatest labor and money-savers yet introduced for the benefit of the celery growers. This new system of bleaching celery is being rapidly adopted in place of the old and expensive way of using boards and banking up. Some of its many advantages are: Celery will not rot in these tubes in wet weather as it will frequently when boards or strips of paper are used. Each plant has a free circulation of air all around, which allows it to dry out quickly after a rain. Celery bleached in this manner is ready for the table much earlier in the fall and positively sweeter, cleaner and free from all earthy flavor. Celery should be nearly full-grown before putting on the bleaching tubes. The bleachers should hug the celery close, but not tight. Trim off a few leaves when the plants are unusually large. Celery will be in prime condition from eight to fourteen days after the tubes are placed. The 6×12 -inch size is generally used on medium or average size celery; the $6\frac{1}{2} \times 13$ is for larger stalks; the 7×14 size is best for very large celery, especially the green varieties, which usually grow much larger than the self-bleaching kinds. Bleaching is done better when the temperature ranges between 50 and 75 degrees.

Size	Doz.	100	1000
6 x 12-inch.....	\$0 80	\$4 50	\$37 50
6 $\frac{1}{2}$ x 13-inch.....	90	5 00	45 00
7 x 14-inch.....	1 00	6 00	50 00

Handles for use in placing tubes. Brass \$5.50. For bleachers sent by parcel post, allow 3 pounds per dozen.



Grape-Protecting Bags

When grapes are forming they require protection from mildew and blackrot, also attacks by bees, birds and insects. Many of our fruit-growers are using the grape-protecting bags every season. They have learned by experience that the protected fruit soon saves the cost of the bags. We supply best quality string-tied bags as shown in illustration.

Size	100	1,000
Opaque.....	\$1 50	\$12 50
Transparent.....	2 50	22 50

Protecting bags fastened with wires of good quality but lighter than the string-tied bags. Wires are furnished with bags.

Size	100	1,000
No. 2.....	\$0 60	\$5 25
No. 3.....	70	6 00
No. 4.....	80	6 75

GARDEN GUIDE (The Amateur Gardener's Handbook). A book for gardeners everywhere, giving direct, simple, and reliable information on how to grow vegetables, fruits, and flowers. Price \$1.75, mailed free.

The Four-Acre Power Lawn Mower

THE PINNACLE OF PERFECTION IN POWER MOWERS

THE FOUR-ACRE MOWER is a powerful grass cutter, sturdy as a tractor—the handiest and most economical Power Mower on the market. Strength is not sacrificed to lightness, nor durability to price. It is built to meet a definite need in a most satisfactory way. There are many special features about this Mower that make it easier and handier to operate. Performance is the standard by which Power Mowers are judged, and in this respect the Four-Acre is in a class of its own.

THE MOTOR is specially designed, air-cooled, forced-draft, throttle control, easy starting, powerful and reliable.

INDEPENDENT CONTROL of power on cutting unit and traction allows it to travel over stony roadways, up and down curbings, etc., without revolving cutting unit. In case any sticks or stones become caught in the cutter blades, the reel clutch will slip leaving knives uninjured. The knives may be sharpened by the Mower's own power. Simply put grinding compound on stationary blade and reverse the motion of knives.

DIFFERENTIAL IN WHEEL gives power on both wheels, yet allows easy steering for turning in and out of flower-beds, bushes, paths, etc. The Four-Acre will cut on a 35-degree incline.

GEAR DRIVE is enclosed. Transmission and clutches run in bath of oil—entirely dirt-, dust-, and fool-proof.

GUARANTEED to do more and better work at less cost, and to outlast any other walking Power Mower built.

Price \$265, f. o. b. New York. Grass Box, \$5 extra

Write for complete catalogue describing the Four-Acre Mower



Brief Specifications

MOTOR: 2½-inch bore by 2½-inch stroke.

SPEED OF MOTOR: 1,000 R. P. M. at 3½ miles per hour of Mower travel.

FUEL CONSUMPTION: About one gallon a day.

WIDTH OF CUT: 24 inches. Capacity 4 to 5 acres a day.

TRANSMISSION: Cut gears. Cone type clutches, giving separate control of power on cutting reel and traction wheels. Throttle and traction clutch control on handle grip.

FINISH: 2 coats battleship grey enamel—1 coat color varnish. Weight, uncrated, 200 pounds. Shipping weight, 250 pounds.

TRELLISES

Made of wood and rattan painted green. The most durable and ornamental trellis on the market.

If crating is required for express or freight shipments, same will be charged **at cost**.

Veranda Trellises

Ornamental and substantial. Especially adapted to outdoor use for high climbing plants.

	Each	Doz.
2 ft....	\$1 10	\$12 00
3 ft.....	1 50	16 00
4 ft.....	1 85	20 00
6 x 1 ½ ft.....	3 00	33 00
8 x 1 ½ ft.....	4 00	44 00
10 x 1 ½ ft.....	5 00	55 00
12 x 2 ft.....	6 00	66 00

Veranda Trellis

Tomato Supports

Two-Hoop Wood. Strong, light, practical, quickly set in position and can be stored in a small space. Doz. \$2.

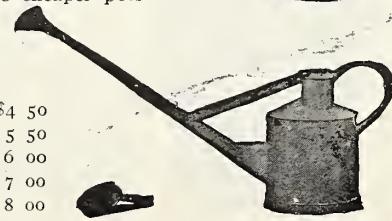
Wood and Wire. Uprights of hardwood. Two wire rings. When not in use they fold for storage. 40 cts. each, \$4 per doz.

Watering Pots

We offer a special line of strongly made pots in heavy gauge galvanized iron. Note the solid spout; this, with the dome top, makes these pots the strongest made. The nose is attached firmly to the spout with a screw joint, and the cap is removable to permit of cleaning. These compete in price with the cheaper pots now on the market. 6 qt. \$1.15; 10 qt. \$1.60; 16 qt. \$2.20.

Haw's Pattern.

No. 0, 2-quart	\$4 50
No. 1, 3-quart	5 50
No. 2, 4-quart	6 00
No. 3, 6-quart	7 00
No. 4, 8-quart	8 00
No. 5, 10-quart	9 00



Haw's

Home Vegetable Gardening from A to Z

A Helpful Book. By A. Kruhm

This book contains 300 pages with over 250 illustrations, 32 of which are in four-color printing. Price \$1.50, mailed free.

Sprayers for Applying Insecticides and Fungicides

PRICES SUBJECT TO MARKET CHANGES



Auto-Spray

Convenient, durable, efficient. Our patented leader of spray apparatus for small use. Will do better work and do it more easily than any other similar article. Useful with bordeaux and all solutions, also in applying cold-water paint or whitewash. Holds four gallons. Illustration shows our new "Auto-Pop" attachment which doubles the efficiency by saving half the solution and labor. Our "Anti-Choke" Nozzle, cleaned at every operation of "Auto-Pop," can never clog. Tank made of galvanized steel or brass. High-grade hose. Castings for handle, etc., all malleable. No continuous pumping as in the case of the Knapsack Sprayer, nor continuous pumping or slopping as in the case of the bucket pump. A few strokes of plunger compresses enough air to cover a quarter acre of potatoes or similar crop. The operator simply holds the nozzle. Also used for spraying disinfectants. A practical machine for potatoes, tobacco, small-fruits, vineyards, poultry-houses, greenhouses, etc. Extension pipes useful for spraying tall trees. Detailed descriptive circular sent on request.

Auto-Spray No. 1B. Brass Tank, with "Auto-Pop".....	\$9 50
Auto-Spray No. 1D. Galvanized Tank, with "Auto-Pop".....	6 50
Two-row Attachment for spraying two rows at one passing.....	1 50
2-foot Brass Extension Pipe.....	60
2-foot Galvanized Extension Pipe.....	50
Brass Elbows for spraying under vines.....	35
Torch.....	1 50
Brass Strainer for straining solution.....	1 20
Auto-Spray Nozzle.....	60

S. & W. Co.'s Fruitall Spray Pump

The "Fruitall" illustrated herewith has been designed especially to meet the demand for a low-priced Sprayer combining the necessary durability, efficiency, and strength.

Outfit C. Sprayer with agitator and one lead of 15 feet $\frac{1}{2}$ -inch discharge hose, with "Mistry Jr." spray nozzle. Price, without barrel, \$20.

Outfit D. Sprayer with agitator and two leads, 15 feet each, $\frac{1}{2}$ -inch discharge hose, with "Mistry Jr." spray nozzle. Price, without barrel, \$25.

We supply barrel, and mount sprayer on it, for \$9 extra, but the barrel is not furnished unless specially ordered.



A Reliable Thermometer

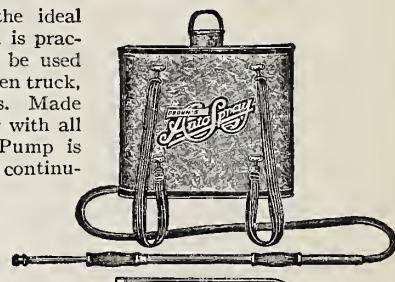
Copper case; distance reading. Black oxidized brass scale, white figures. (Spirit.) Scale range, 120 degrees above to 40 degrees below zero. 8-inch, 70 cts.; 10-inch, \$1.



Double-Acting Pump Sprayer and Knapsack Tank

THE SAME SPRAY WITH HALF THE LABOR

Pump.—This Pump is the ideal all-purpose sprayer. Its field is practically unlimited, as it may be used for spraying trees, vines, garden truck, potatoes, and any field crops. Made entirely of brass, doing away with all danger of corrosion. This Pump is double-acting, which gives a continuous spray, a distinct advantage over single-acting Pumps in that *the pump works on both the up and the down stroke*. The Pump cylinder is small in diameter, and in a test a pressure of 180 pounds to the square inch was raised with very little labor.

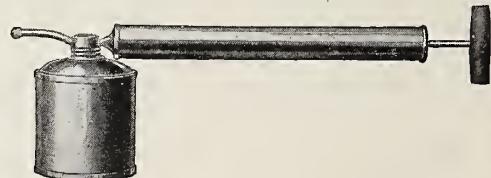


Knapsack Tank.—Where a portable tank for field or garden work is needed, we recommend our patrons purchasing the Knapsack Tank as well as the Pump.

OUTFITS AND EQUIPMENT

Double-acting pump, with 2½ feet of $\frac{1}{2}$ -inch suction hose, nozzle, and strainer, complete.....	\$5 00
Knapsack galvanized-iron tank, for field or garden work.....	3 00
Extension rod, curved, brass.....	50

Two-row attachment of solid brass, for spraying two rows at a time..... 1 50



S. & W. Co.'s Continuous Sprayer

Will handle all solutions, insecticides, and disinfectants. Used in the greenhouse, kitchen-garden, window-garden, for rose bushes, and in the poultry-house. Two spray caps—one straight, the other at an angle for reaching under leaves or spraying directly down. Construction of tank permits the Sprayer to be operated at any angle, and it will not tip over when filling. All tin, 80 cts.; tin pump, brass tank, \$1; all brass, \$1.50. Weight, 3 lbs.



S. & W. Bucket Spray Pump

The S. & W. Spray Pump is a saving in the cost of small hand Sprayers. It is a quality Sprayer. This Pump is made of heavy seamless brass tubing, with a large brass air-chamber; it has brass ball valves, is double-acting and will produce a continuous spray or stream. A bordeaux nozzle, with 3 feet of $\frac{1}{2}$ -inch spray hose is furnished. The nozzle can be regulated to throw a very fine, medium, or coarse spray. We recommend this Sprayer as the best cheap hand Sprayer for applying whitewash, cold-water paint and disinfectants. When ordering Sprayer to be sent by parcel post, allow for 10 lbs., the packed weight of Sprayer. \$7.

Bellows, Woodason's

Powder, small size.....	\$3 25
" large size.....	4 75
Liquid, small size.....	4 25
" large size.....	4 75



Double-Cone Powder Bellows. For dusting plant with dry powders for insects and fungus. \$7.25.

REMEDIES FOR INSECTS AND FUNGUS

NOTE.—Insecticides marked * can be sent by Parcel Post at purchaser's expense. Consult your local post office for rate from Baltimore, Md.

ALL PRICES SUBJECT TO MARKET CHANGES

Aphine. Effective against all soft-bodied and plant-sucking insects, such as green, black, and white fly, red spider, thrips, mealy bug, brown and white scale. Used as a spray when diluted with water in the proportions as directed on each can. An insecticide which can be used indoors and in the garden. An excellent cleanser for house plants. Gal. \$3.75, qt. \$1.25, pt. 65 cts., $\frac{1}{2}$ pt. 40 cts., $\frac{1}{4}$ pt. 25 cts.

Arserate of Lead, Powder. Owing to the deterioration of lead in paste form, we have decided to discontinue handling it, and strongly recommended the powder form, which is better than Paris green, does not burn the foliage, goes twice as far, and is easier to handle. Dilute 1 pound to 50 gallons of water. $\frac{1}{2}$ lb. 25 cts., lb. 50 cts., 5 lbs. \$2.25, 10 lbs. \$4, 25 lbs. \$9, 50 lbs. \$15, 100 lbs. \$27.50

Atomic Sulphur. A complete fungicide, suitable for use during the summer on all fruit trees. Controls rots, scabs, and fungous diseases of the peach, apple, pear, plum, etc. Atomic Sulphur is a yellowish paste, and from 2 to 7 pounds, according to the season and variety, are mixed with 50 gallons of water. Full directions accompany the product. Lb. bottles 35 cts., 5-lb. kegs \$1.50, 10 lbs. \$2.75.

Black-Leaf 40. A concentrated solution of nicotine sulphate; an excellent spray for black aphides and sucking insects of all kinds. Dilutes one part to 900 or 1,000 parts of water, according to treatment. Full directions on each package. 1-oz. bottle 35 cts., $\frac{1}{2}$ lb. tin \$1.25, 2 lbs. \$3.50, 10 lbs. \$13.50.

Bordeaux Mixture, Dry Powder. One of the best fungicides known on account of its metallic copper. Copper in this form stimulates the growth of plants on which it is applied, acting as a tonic. Bordeaux Mixture is the recognized fungicide for the control of most fungous diseases of fruits and ground crops. Dilute 4 to 4 $\frac{1}{2}$ pounds to 50 gallons of water. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 5 lbs. \$1.50, 10 lbs. \$2.75, 25 lbs. \$5.75, 50 lbs. \$10, 100 lbs. \$17.25.

Borowax. The fruit-grower's friend. A complete protection against borers if properly applied to peach, plum, apple, pear, and quince trees. Qt. 50 cts., gal. can \$1.75, 6 gals. \$9, $\frac{1}{2}$ bbl. \$31.25, bbl. \$50.

***Climax Lawn Sand.** A combination of carefully dried and finely ground chemicals. Destroys weeds. $3\frac{1}{2}$ -lb. can 65c., 7-lb. can \$1.25, 14-lb. can \$2, 28-lb. pkg. \$3.75, 56-lb. pkg. \$7.25, 140 lbs. \$14.

Hellebore, Powdered. Good for exterminating currant worms. $\frac{1}{2}$ lb. 35 cts., lb. 60 cts., 5 lbs. \$2.75.

Liquid Weed Killer, Herbicide. There is nothing more annoying to the well-kept home grounds than weeds constantly coming up in the roadways, paths and gutters. The Weed Killer may be applied by means of a sprinkling apparatus of any kind from the small sprinkling can to the large street-sprinkling wagon. It is harmless to stone, woodwork, or shoes and is perfectly odorless. One thorough application will kill all weeds as well as the roots of the same. It is a combination of high-grade chemicals which when diluted according to the directions given will destroy weeds at once. The best time to apply is shortly after a rain. One gallon of either of these preparations diluted is sufficient to cover 100 to 150 square yards of space. This is a standard preparation which the manufacturer recommends being diluted 1 part to 40 parts of water. Qt. 70 cts., $\frac{1}{2}$ gal. \$1.20, gal. \$2, 5-gal. keg \$8, 10-gal. keg \$15, 30-gal. cask \$33, 50-gal. bbl. \$50.

Kerosene Emulsion. For plant lice and other soft-bodied insects, especially woolly aphid; also for rose bugs, cabbage worms, scale, and melon louse. Contains 55 per cent kerosene. Dilutes 1 part to 25 to 50 parts of water. Qt. 60 cts., gal. \$1.50, 5 gals. \$6.25.

Lemon Oil. Odorless and poisonless; 1 to 30 to 40 parts of water. Destroys mealy bug, scale, thrips, red spider, black and green fly, caterpillar, etc. $\frac{1}{2}$ pt. 40 cts., pt. 60 cts., qt. \$1, $\frac{1}{2}$ gal. \$1.75, gal. \$3.

Lime-Sulphur, Bowker's Concentrated. For destroying San Jose scale. One gallon makes ten gallons of spray; dilute with cold water. Bowker's Lime-Sulphur is manufactured under the direct personal supervision of skilled graduate chemists who have devoted years to manufacturing spraying materials, with the one dominant idea that any spray to be worth branding "Bowker's" must be the best. Bowker's is "Lime-Sulphur" with the guesswork left out. Qt. 50 cts., gal. can \$1.25, 5-gal. can \$4.25, half-barrel (about 25 gals.) \$8, barrel (50 gals.) \$14.

Melrosine. A real remedy for rose-bug troubles. Dilute 1 pint and $3\frac{1}{2}$ ounces with 3 gallons of water, for general use. Trial can size, 5c. Pt. can \$1, qt. can \$1.75, $\frac{1}{2}$ -gal. can \$3.25, gal. can \$6.

Nico-Fume Liquid. This preparation is a free nicotine preparation, and is used by many of the leading growers. $\frac{1}{4}$ -lb. can 75 cts., lb. can \$2.25, 4-lb. can ($\frac{1}{2}$ -gal.) \$8, 8 lbs. (gal.) \$15.

***Nico-Fume Paper.** This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. It is also used for tying near blooms of chrysanthemums in early fall to keep down insects. Preferred by many who do not wish to spray or vaporize. Box of 24 sheets, \$1.25, box of 144 sheets \$5.50, box of 288 sheets \$10.

Para-Dichlorobenzene. Highly recommended for destroying the peach borer in trees four years and older. During September a ring of the crystals is placed on the soil around the trunk and covered by mounding the earth against the tree. One ounce is sufficient for each tree. Lb. 75 cts.

Paris Green. $\frac{1}{4}$ lb. 20c., $\frac{1}{2}$ lb. 35c., lb. 60c., 5 lbs. \$2.75, 14 lbs. \$6.50.

Pyrox (Bowker's). The one best and safest all-round spray which kills all leaf-eating insects and prevents blights and all fungous troubles, without injury, on fruit trees, grape-vines, currant bushes, potatoes, cantaloupes, cucumbers, and other garden vegetables, also on rose bushes, shrubbery, etc. It is a creamy paste which looks like paint and "sticks like paint." It needs only to be mixed with cold water and it is ready to apply. Once tried, always used. Lb. 50 cts., 5 lbs. \$1.75, 10 lbs. \$3.15, 25 lbs. \$6.50, 50 lbs. \$11.25, 100 lbs. \$18, 300 lbs. \$51.

***Slug-Shot.** The standard remedy for currant worms, rose slugs, cabbage worms, and almost any soft-shelled insects that infest the garden. Lb. 25 cts., 5 lbs. 75 cts., 10 lbs. \$1.20, 125-lb. keg \$12.50.

***Sulphur.** Used principally in greenhouse for checking mildew. Lb. 25 cts., 5 lbs. \$1, 10 lbs. \$1.60, 100 lbs. \$12.

***Tobacco Dust** (Kilmdead). The best of the Tobacco Dusts for dusting or fumigating. Lb. 25 cts., 5 lbs. 75 cts., 25 lbs. \$2, 50 lbs. \$3.50, 100 lbs. \$6.

***Tree Tanglefoot.** A paste preparation for painting around the trunks of trees, in the form of a band. Caterpillars and other crawling pests cannot get over it. Lb. 60 cts., 5-lb. can \$2.75, 10-lb. can \$5.25, 25 lbs. \$11.

Tree Wound Paint. Prevents decay. A residuum, penetrating, antiseptic paint that is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding. Pt. 60 cts., qt. \$1, gal. \$2.50, 5 gals. \$10.

Vermine. A soil sterilizer and germicide for all soil vermin, such as cut, eel, wire-, and grub-worms, slugs, root-lice, maggots and ants. Use one part of Vermine to four hundred parts of water, thoroughly soaking the ground. It does its work effectively without injury to vegetation, and protects your crops and lawns against the ravages under the soil. $\frac{1}{4}$ pt. 30 cts., $\frac{1}{2}$ pt. 50 cts., pt. 75 cts., qt. \$1.25, gal. \$3.75.

Wilson's O. K. Plant Spray. For roses, chrysanthemums, evergreens, and plants affected with scale or insects under glass or outside. Recommended for **Rose Bugs**. One part is mixed with from 10 to 20 parts of water. Qt. \$1, gal. \$3, 5 gals. \$10.

Crops Recommended for Green-Manuring (Cover Crops)

Seeds broadcasted thickly and the crop plowed under the land, there to decay and add humic material and fertilizing elements to it.

	Quantity sown		Price, subject to market change				
	Per 100 square yds.	Per acre 100 lbs.		Lb. \$0.20	10 lbs. \$1.50	100 lbs. \$12.00	10 bus. \$47.50
	3 lbs.	100 lbs.	Qt. \$0.25	Pk. \$1.50	Bus. \$5.00	10 bus. \$47.50	35.00
For early spring seeding before frosts are entirely over.							
Spring Vetch.....	3 qts.	3 bus.	\$0.25	\$1.50	\$5.00		
Canada Field-Peas.....	2 qts.	2 bus.	25	1.25	3.75		
Spring Rye.....							
For seeding after settled warm weather has commenced. Frost kills these varieties.							
Soy Beans, Mammoth Yellow.....	2 qts.	2 bus.	30	1.25	4.00		
Cowpeas, New Era.....	2 qts.	2 bus.	20	1.50	4.50		
Cowpeas, Whippoorwill.....	2 qts.	2 bus.	20	1.50	4.50		
Japanese Buckwheat.....	2 qts.	2 bus.	20	1.00	3.00		
For seeding during the summer and fall. These stand frost; they are sown to remain until the spring, to be plowed under then.							
Winter Rye.....	2 qts.	2 bus.	20	1.00	3.50		
Winter Wheat.....	2 qts.	2 bus.	20	1.00	3.50		
Winter or Hairy Vetch.....	3 lbs.	100 lbs.	\$0.30	\$2.75	\$25.00		

FERTILIZERS

Our list contains the very best and most modern kinds.
We can quote special prices on carload quantities

All prices subject to market
changes without notice

The prices quoted include freight paid to your station in 100-pound lots or over, except where noted; on lesser quantities purchaser pays delivery charges.

Blood. (Dried.) Excellent for indoor culture of flowering plants, such as carnations, roses, etc. Its chief element is nitrogen. 5 lbs. 45 cts., 10 lbs. 75 cts., 100 lbs. \$5.50, 500 lbs. \$25, ton \$85.

No. 2 Bone Dust for General Use. A bone dust about pinhead size, with a fair percentage of bone flour. Excellent for top-dressing lawns as well as good for mixing with soil. Sold largely to carnation and rose-growers for top-dressing and for mixing with soil. 5 lbs. 35 cts., 10 lbs. 50 cts., 100 lbs. \$3.50, 500 lbs. \$15, ton \$55; carload lots, \$50 per ton.

S. & W. Co.'s Emerald Grass Fertilizer. A clean, portable, and convenient lawn dressing, which we have found to be never-failing in inducing a rapid and rich green growth. It should be sown broadcast in the spring or fall. It is in every way more desirable than manure. The use of Emerald Grass Fertilizer entirely does away with the old practice of top-dressing lawns with stable manure. Quantity required: A 10-lb. package is sufficient to go over an area of 300 square feet, or for forming a new lawn, from 1,000 to 1,500 lbs. to the acre, or a smaller quantity for renovating an old one. It is best to apply during dull weather and, if applied during warm weather, soak down with a hose after applying. 5 lbs. 45 cts., 10 lbs. 80 cts., 100 lbs. \$5.50, 500 lbs. \$20, ton \$75; carload lots, \$65 per ton.

S. & W. Co.'s General Garden Fertilizer. This Fertilizer is for general garden work for vegetables, flowers and fruits. 10 lbs. sufficient for space 15 x 15; 500 lbs. to the acre. 5 lbs. 45 cts., 10 lbs. 80 cts., 100 lbs. \$5.50, 500 lbs. \$20, ton \$75; carload lots, \$65 per ton.

Humus. Nature's product for enriching lawns, soil for all kinds of gardening, and for stimulating potted plants. Used in making fine lawns, especially where soil is poor. 100 lbs. \$3.50, 500 lbs. \$15, ton \$40, the foregoing in boxes; carload lots in bulk, \$10 per ton.

Lime, Agricultural, Hydrated. This lime is specially prepared for use on the soil and is a combination of calcium-hydrate and calcium-carbonate, finely pulverized. Quantity required: Heavy soils, 2,000 to 6,000 lbs. to the acre; light, sandy soils, 1,000 to 3,000 lbs. to the acre, according to their apparent need. 5 lbs. 30c., 10 lbs. 50 cts., 100 lbs. \$2, 500 lbs. \$8.75, ton \$30; carload lots in bulk, \$18 per ton, f.o.b. New York. Price, delivered in carload lots to your station, upon request.

Nitrate of Soda. Quantity required: Being extremely soluble, it is usually applied after the plants are above ground, 100 to 500 lbs. to the acre. 5 lbs. 45 cts., 10 lbs. 75 cts., 100 lbs. \$5.50, 500 lbs. \$22.50, ton \$75; carload lots in bulk, \$70 per ton.

Sheep Manure, Pure Pulverized. A pure, natural, nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants. In the vegetable-garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure. Quantity required: For garden and field-crops, one or two tons to the acre; one-half before plowing, the balance before harrowing. For top-dressing grass, one ton to the acre, applied in fall or early spring. 5 lbs. 40 cts., 10 lbs. 60 cts., 100 lbs. \$3.25, 500 lbs. \$15, ton \$50; carload lots in bulk, \$47.50 per ton.

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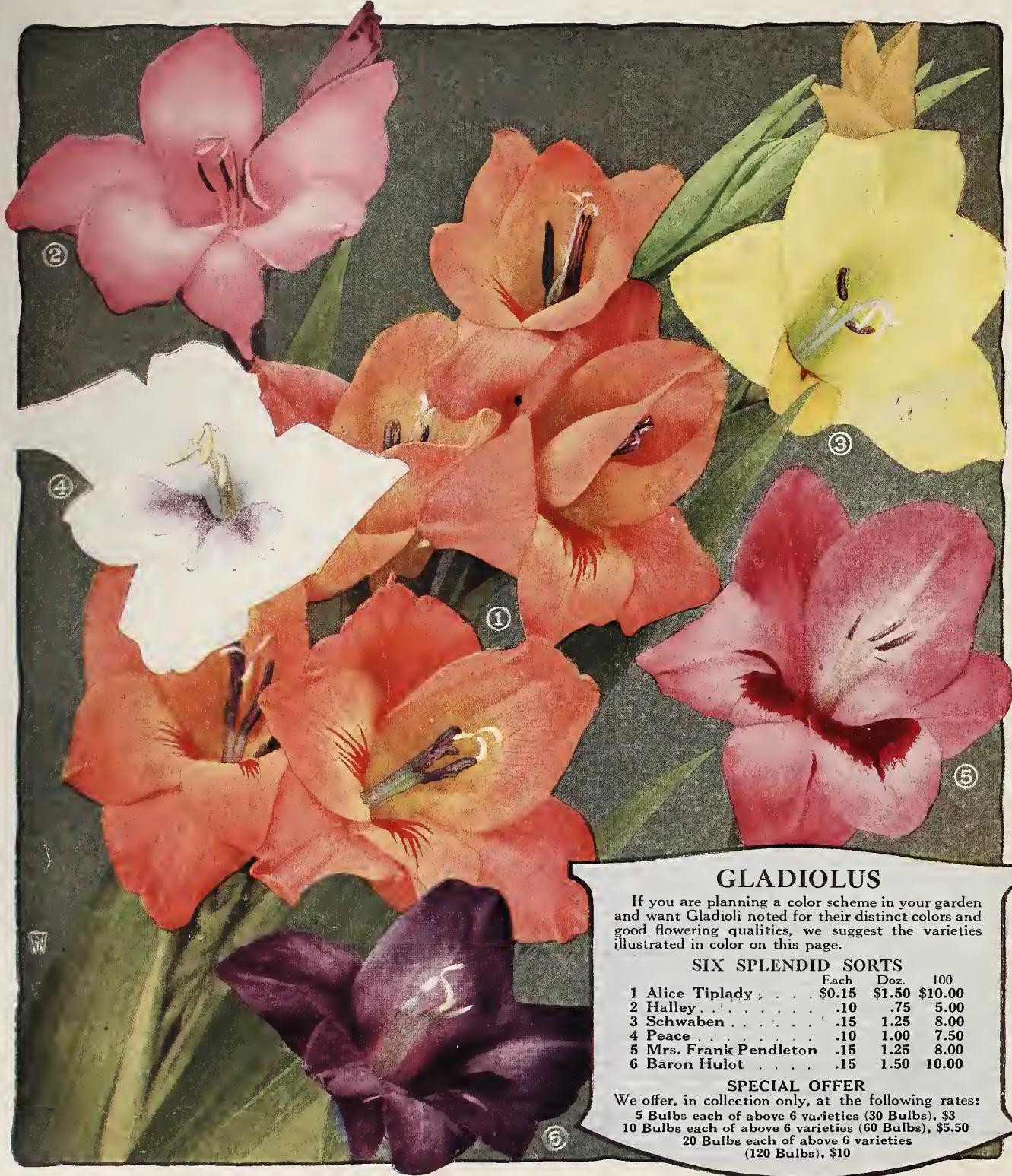
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